



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Titan Glass & Aluminum, LLC
450 West 27th Street
Hialeah, FL 33010

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: Series "TFX-2750" Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 15-257, titled "Titan Series TFX-2750 Aluminum Fixed Window - Large & Small Impact Rated", sheets 1 through 5 of 5, dated 08/25/15, prepared by ENGCO Inc., signed and sealed by Pedro M. De Figueiredo, 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.

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 NOA# 14-0107.09 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



MP
1/22/16

NOA No. 15-0902.04
Expiration Date: March 11, 2019
Approval Date: January 28, 2016
Page 1

Titan Glass & Aluminum, LLC

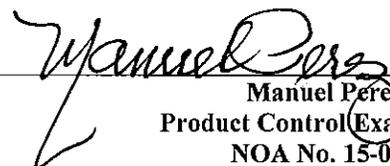
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA# 08-0919.02)
2. Drawing No 15-257, titled "Titan Series TFX-2750 Aluminum Fixed Window - Large & Small Impact Rated", sheets 1 through 5 of 5, dated 08/25/15, prepared by ENGCO Inc., signed and sealed by Pedro M. De Figueiredo, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
 - 7) Drop Load Test, per FBC and per ANSI Z 97.1along with marked-up drawings and installation diagram of series TFX-2750 aluminum fixed window with insulated glass, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 7701**, dated 03/14/14, signed and sealed by Idalmis Ortega, P.E.
2. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Small Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of series 2009-80 aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-6233**, dated 05/11/10, signed and sealed by Jorge A. Causo, P.E.
(Submitted under NOA# 10-0719.13)
3. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of series 2007 aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5282**, dated 07/23/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 08-0919.02)



Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0902.04

Expiration Date: March 11, 2019
Approval Date: January 28, 2016

Titan Glass & Aluminum, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test report on: 1) Drop Load Test, per FBC and per ANSI Z 97.1, along with marked-up drawings and installation diagram of series 2007 aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5635**, dated 08/06/08, signed and sealed by Carlos S. Rionda P.E.
(Submitted under NOA# 08-0919.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 08/25/15 and 12/15/15, prepared by ENGCO Inc., signed and sealed by Pedro M. De Figueiredo, P.E.
2. Glazing complies with **ASTM E1300-09**.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

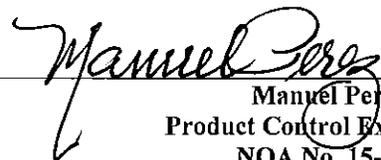
1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their "**Butacite® PVB Glass Interlayer**" dated 04/25/15, expiring on 12/11/16.
2. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, and of no financial interest, dated August 26, 2015, issued by ENGCO Inc., signed and sealed by Pedro M. De Figueiredo, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-5282**, issued by Fenestration Testing Laboratory, Inc., dated August 10, 2007, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 08-0919.02)
3. Proposal No. **13-0332** issued by the Product Control Section, dated May 16, 2013, signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. **14-0107.09**, issued to Titan Glass & Aluminum, LLC for their Series "**TFX-2750**" Aluminum Fixed Window - L.M.I., approved on 03/20/14 and expiring on 03/11/19.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0902.04

Expiration Date: March 11, 2019
Approval Date: January 28, 2016

TITAN SERIES TFX-2750

ALUMINUM FIXED WINDOW LARGE AND SMALL MISSILE IMPACT RESISTANT



ENGINEERING SEAL
PEDRO DE FIGUEIREDO
PE 52609
ENGINEERING
ENGCO INC. - CA 8116
5595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENGCO@AOL.COM

GENERAL NOTES:

FLORIDA BUILDING CODE 2014 HVHZ
LARGE & SMALL MISSILE IMPACT RATED

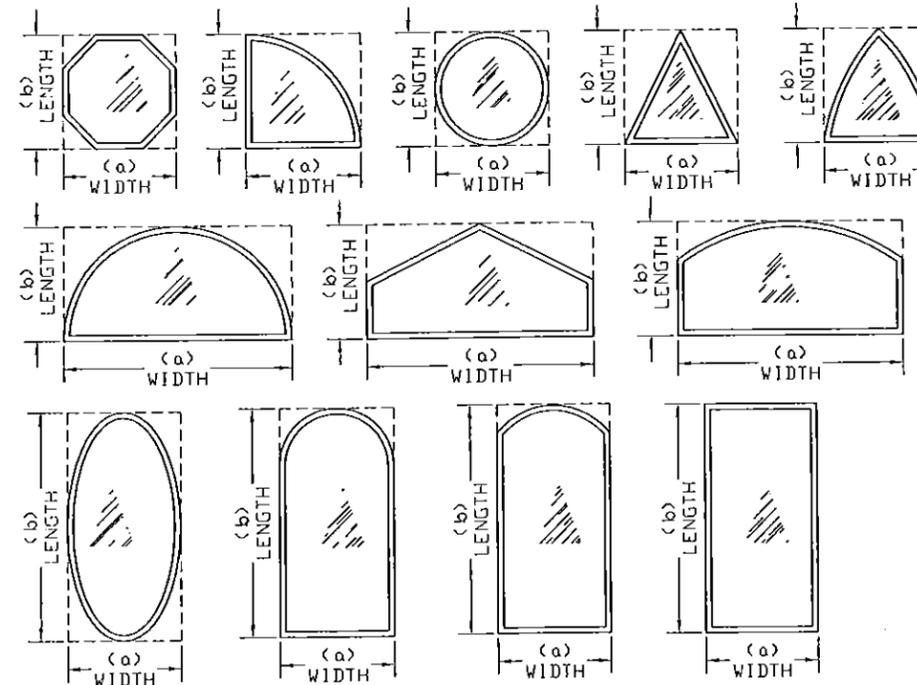
- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FBC 2014 INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN ALUMINUM FIXED WINDOW DESIGNED, CONSTRUCTED AND TESTED PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE & SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL. INSTALLATION OF HURRICANE PROTECTION DEVICES IS NOT REQUIRED.
- 3- POSTING: PRODUCT SHALL BE LABELED AS PER FBC 2014. THE PERMANENT LABEL, MARKING OR ETCHING SHALL PROVIDE TRACTABILITY TO THE MANUFACTURER AND PRODUCT. THE FOLLOWING SHALL ALSO BE REQUIRED EITHER ON THE PERMANENT LABEL OR ON A TEMPORARY SUPPLEMENTAL LABEL APPLIED BY THE MANUFACTURER: INFORMATION IDENTIFYING THE MANUFACTURER, THE PRODUCT MODEL/SERIES NUMBER, POSITIVE AND NEGATIVE DESIGN PRESSURE RATING, PRODUCT MAXIMUM SIZE, GLAZING THICKNESS, IMPACT-RESISTANCE RATING IF APPLICABLE, THE FLORIDA PRODUCT APPROVAL NUMBER, APPLICABLE TEST STANDARD(S), AND MIAMI DADE NOA NUMBER, THE TEMPORARY SUPPLEMENTAL LABEL SHALL REMAIN ON THE WINDOW UNTIL FINAL APPROVAL BY THE BUILDING OFFICIAL. SAMPLE LABEL:

"TITAN SERIES TFX-2750 FIXED WINDOW
TITAN GLASS & ALUMINUM, LLC - MIAMI - FLORIDA
LARGE & SMALL MISSILE IMPACT RATED
MIAMI-DADE PRODUCT CONTROL APPROVED
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND TO BE PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HERE IN SPECIFIED. THE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-10, ARE TO BE MULTIPLIED BY 0.6
- 5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T6 ALLOY OR AS NOTED AND GLAZING TO BE LAMINATED IMPACT GLASS AS SPECIFIED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR SPACING AND LOADS MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- DISSIMILAR MATERIALS: WHERE ALUMINUM IS IN CONTACT OR FASTENED TO DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, INSTALLATION SHALL MEET THE REQUIREMENTS OF CHAPTER M.7 OF THE ALUMINUM DESIGN MANUAL 2010.

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4 OF 5	TYPICAL FRAME ANCHORAGE
5 OF 5	BILL OF MATERIALS, WINDOW COMPONENTS AND CORNER ASSEMBLY

APPROVED ALTERNATE WINDOW SHAPES



* MAXIMUM DESIGN PRESSURE RATING (psf) FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE DETERMINED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE (a x b) OR RECTANGLE (a x b) AS SHOWN IN DOTTED LINES AND OBTAINING MAXIMUM DESIGN PRESSURE RATING (psf) FOR THOSE ALTERNATE SHAPES FROM TABLES ON SHEET 2.

MIAMI-DADE BCCO:
PRODUCT REVISED
complying with the Florida
Building Code
Acceptance No. 15-0902.04
Expiration Date March 11, 2019
By *Manuel Perez*
Miami Dade Product Control

PRODUCT:
TITAN SERIES TFX-2750
ALUMINUM FIXED WINDOW
LARGE & SMALL IMPACT RATED

MANUFACTURER:
TITAN
GLASS & ALUMINUM, LLC
450 WEST 27TH STREET
HIALEAH, FLORIDA, 33010
PHONE: (305) 888-0911
FAX: (305) 671-3840

PK
DRAFTING & MORE INC.
SCALE:
NA
DATE:
08/25/2015
DRAWING #
15-257
SHEET
1 OF 5

TABLE 1
DESIGNED PRESSURES FOR
WINDOWS WITH GLASS TYPE A

(a) in	(b) in	Pd (psf)		(a) in	(b) in	Pd (psf)			
		PDS	NEG			PDS	NEG		
36	108	114	150	50	66	114	114		
	114	114	149		72	114	114		
	120	114	147		78	114	114		
	126	114	146		84	114	114		
	132	114	114		90	114	114		
	138	114	114		96	114	114		
	144	114	114		120	114	114		
	150	114	114		60	106	106		
	156	114	114		66	106	106		
	162	114	114		72	106	106		
42	78	114	136	54	78	106	106		
	84	114	136		84	106	106		
	90	114	136		90	106	106		
	96	114	136		96	106	106		
	102	114	135		102	106	106		
	108	114	133		108	106	106		
	114	114	114		111	106	106		
	143	114	114		60	95	95		
	72	114	124		66	95	95		
	46	78	114		124	60	72	95	95
84		114	124	78	95		95		
90		114	124	84	95		95		
96		114	124	90	95		95		
102		114	114	96	95		95		
130		114	114	100	95		95		
66		114	119	66	86		86		
72		114	119	72	86		86		
48		78	114	119	66		78	86	86
		84	114	119			84	86	86
	90	114	119	90		86	86		
	96	114	114	72		79	79		
	125	114	114	78		79	79		
				83		79	79		

TABLE 2
DESIGNED PRESSURES FOR
WINDOWS WITH GLASS TYPE B

(a) in	(b) in	Pd (psf)		(a) in	(b) in	Pd (psf)	
		PDS	NEG			PDS	NEG
36	60	80	80	42	60	80	80
	72	80	80		72	80	80
	78	80	80		78	80	80
	84	80	80		82	80	80
	90	80	80		60	80	80
	96	80	80		66	80	80
42	60	80	80	46	60	80	80
	72	80	80		66	80	80
	78	80	80		72	80	80
	82	80	80		75	80	80
	60	80	80		60	80	80
	66	80	80		66	80	80
46	60	80	80	48	60	80	80
	66	80	80		72	80	80
	72	80	80		60	80	80
	75	80	80		66	80	80
	60	80	80		69	80	80
	64	80	80		54	60	80

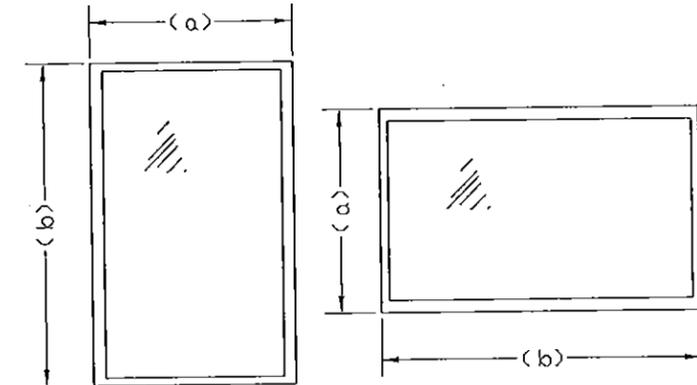
TABLE 3
DESIGNED PRESSURES FOR
WINDOWS WITH GLASS TYPE C

(a) in	(b) in	Pd (psf)		(a) in	(b) in	Pd (psf)	
		PDS	NEG			PDS	NEG
36	60	90	120	42	60	90	120
	72	90	120		72	90	120
	78	90	120		78	90	120
	84	90	119		84	90	119
	90	90	111		90	90	111
	96	90	104		96	90	104
	102	90	98		102	90	98
	108	90	93		108	90	93
	111	90	90		111	90	90
	60	90	120		60	90	120
42	72	90	119	46	72	90	119
	78	90	110		78	90	110
	84	90	102		84	90	102
	90	90	95		90	90	95
	95	90	90		95	90	90
	60	90	120		60	90	120
	72	90	109		72	90	109
	78	90	100		78	90	100
	84	90	93		84	90	93
	87	90	90		87	90	90
46	60	90	119	48	60	90	119
	72	90	104		72	90	104
	78	90	96		78	90	96
	83	90	90		83	90	90
	60	90	114		60	90	114
	72	90	100		72	90	100
50	78	90	92	54	78	90	92
	80	90	90		80	90	90
	60	90	106		60	90	106
	72	90	93		72	90	93
54	74	90	90	60	74	90	90
	66	90	91		66	90	91

WINDOW NOTES:

1- GLAZING TYPE A, B AND C
COMPLIES WITH REQUIREMENTS
OF ANSI Z97.1

2- FRAME WIDTH (a) AND HEIGHT (b)
CAN BE ROTATED



AIR INFILTRATION ASTM E283
6.24 PSF -- 0.01 cfm/sq.ft

WATER RESISTANCE ASTM E331
13.5 PSF - 15 min
17.1 PSF - 15 mm GLASS TYPE A

FORCE ENTRY ASTM F588
TYPE D WINDOW GRADE 10



DEC 15 2015

ENGINEERING SEAL
PEDRO DE FIGUEIREDO
PE 52609

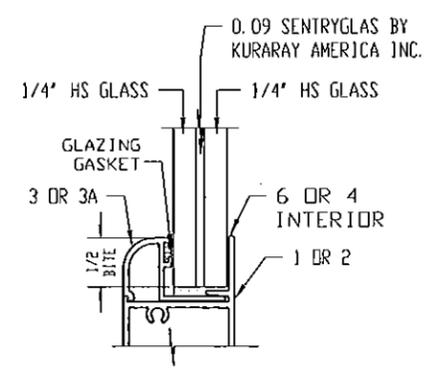
ENGINEERING
ENGCO INC. - CA 8116
5595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENGCO@AOL.COM

PRODUCT:
TITAN SERIES TFX-2750
ALUMINUM FIXED WINDOW
LARGE & SMALL IMPACT RATED

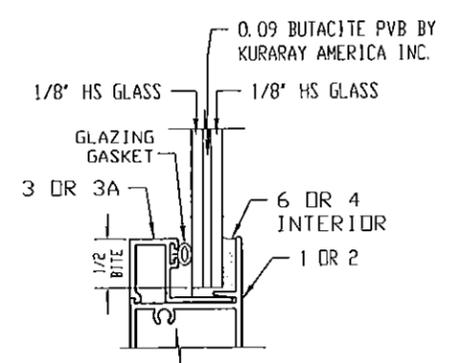
MANUFACTURER:
TITAN
GLASS & ALUMINUM, LLC
450 WEST 27TH STREET
HIALEAH, FLORIDA, 33010
PHONE: (305) 868-0911
FAX: (305) 671-3840

GLAZING OPTIONS

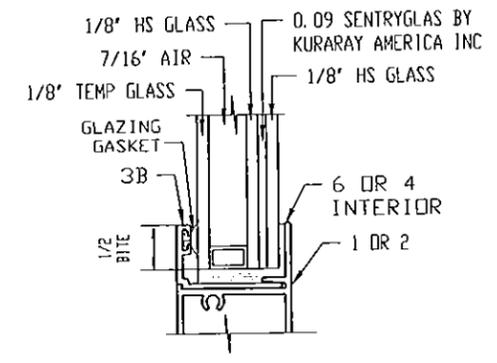
GLASS TYPE A



GLASS TYPE B



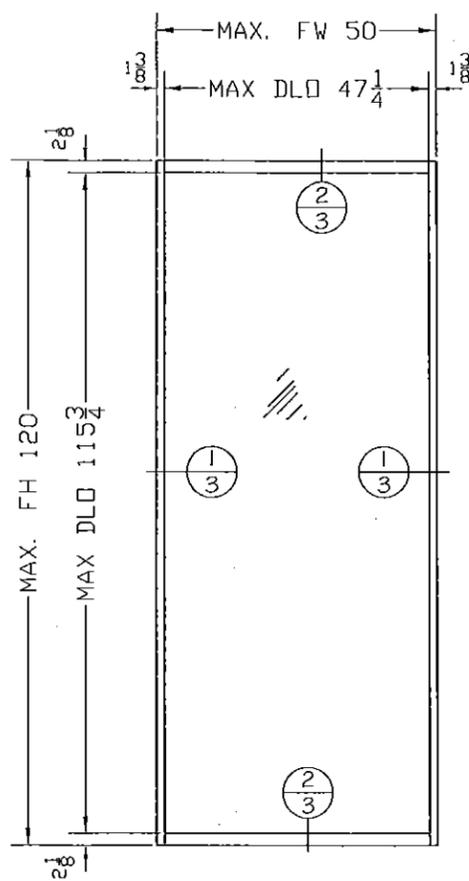
GLASS TYPE C



GLAZING TYPE A, B AND C COMPLIES WITH THE REQUIREMENTS OF ASTM E1300 AND ANSI Z97.1
SETTING BLOCKS ARE REQUIRED FOR WINDOW SILL OVER 36" WIDE

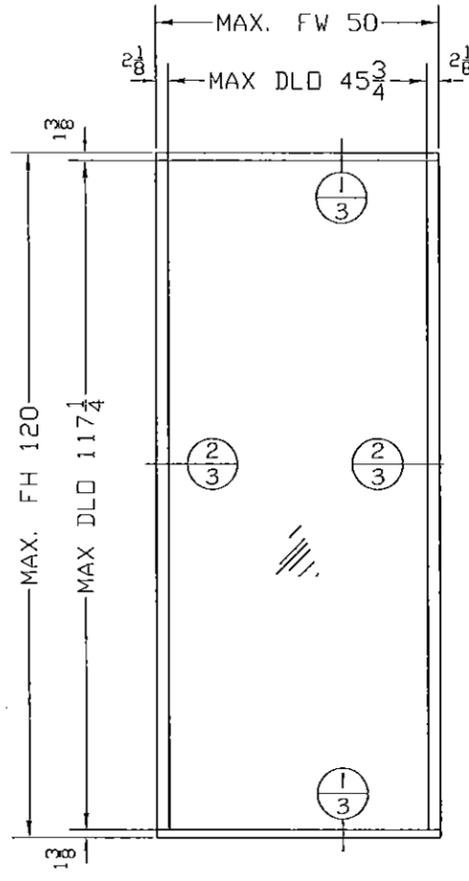
MIAMI-DADE BCCO:
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NA
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SHEET
2 OF 5



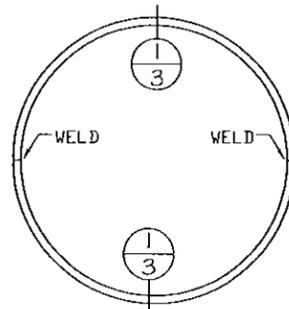
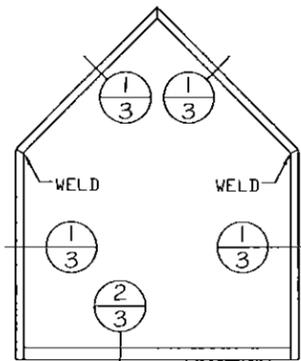
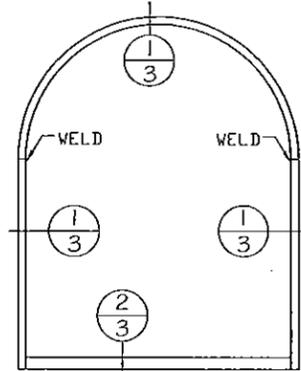
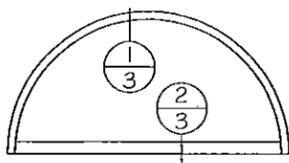
TYPICAL ELEVATION WITH:
1 3/8" JAMB FRAMING
2 1/8" HEADER/SILL FRAMING

FH = DLO + 4 1/4"
FW = DLO + 2 3/4"

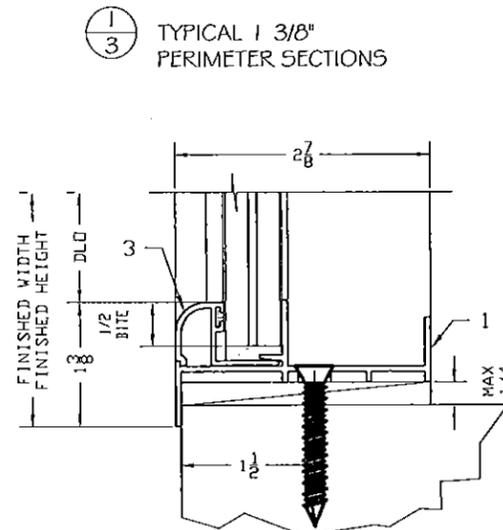


TYPICAL ELEVATION WITH:
2 1/8" JAMB FRAMING
1 3/8" HEADER/SILL FRAMING

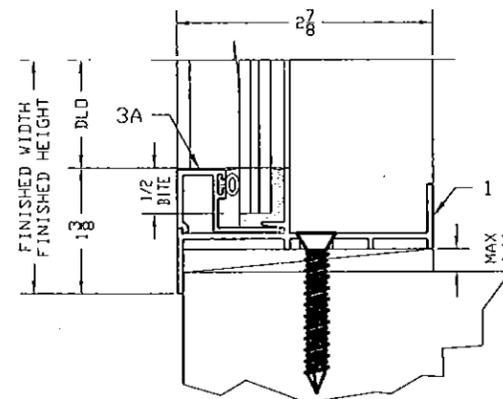
FH = DLO + 2 3/4"
FW = DLO + 4 1/4"



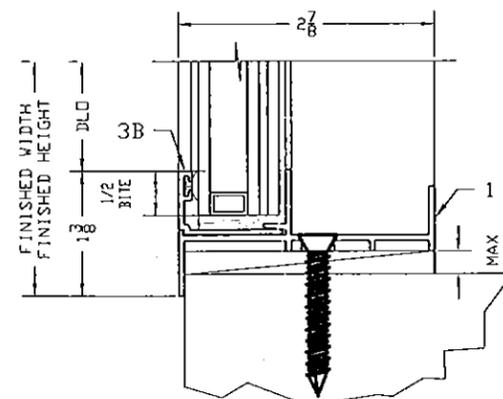
TYPICAL SHAPED WINDOWS ELEVATION WITH:
1 3/8" MAIN FRAME MITER AND WELDED
2 1/8" FRAMING USED FOR 90° CORNERS
FRAME = DLO + 1 3/8" + 2 1/8"
FRAME = DLO + 1 3/8" + 1 3/8"



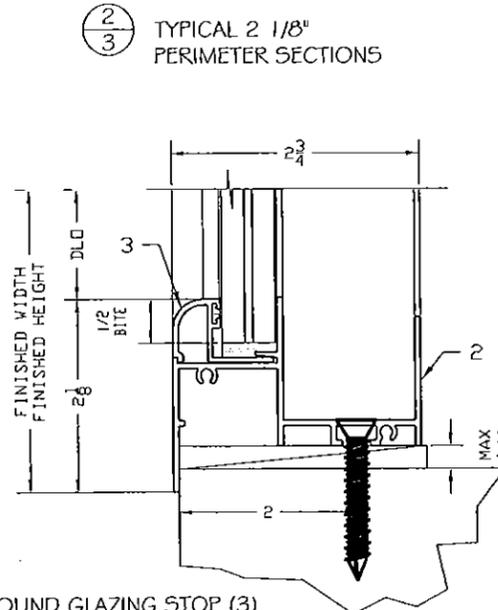
ROUND GLAZING STOP (3)
GLASS TYPE A OR B



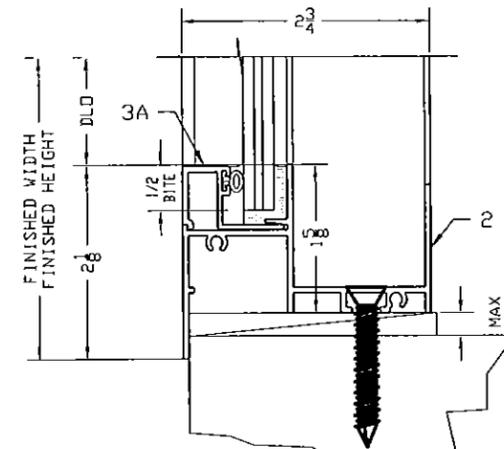
SQUARE GLAZING STOP (3A)
GLASS TYPE A OR B



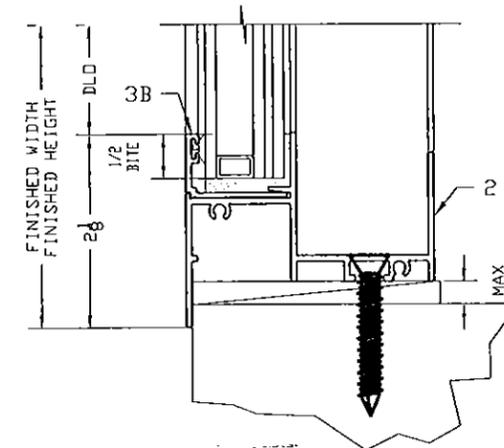
GLAZING STOP (3B)
INSULATED GLASS TYPE C



ROUND GLAZING STOP (3)
GLASS TYPE A OR B



SQUARE GLAZING STOP (3A)
GLASS TYPE A OR B



GLAZING STOP (3B)
INSULATED GLASS TYPE C



ENGINEERING
ENSCO INC. - CA 8116
5595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENSCO@AOL.COM
PE 52609

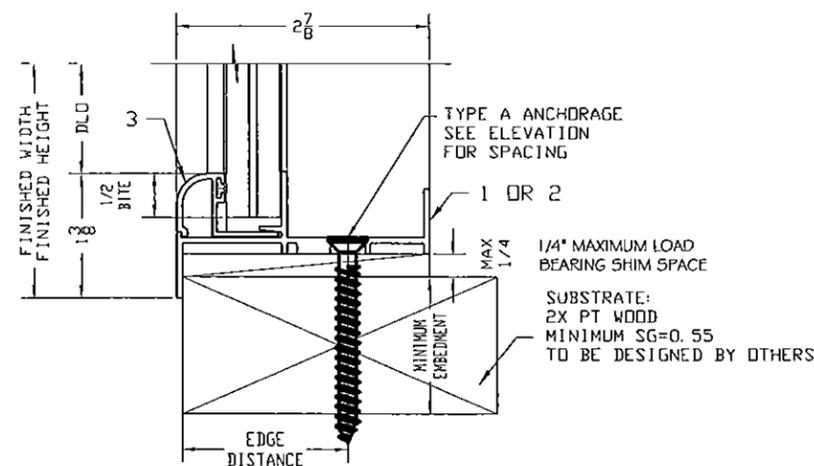
PRODUCT:
TITAN SERIES TFX-2750
ALUMINUM FIXED WINDOW
LARGE & SMALL IMPACT RATED

MANUFACTURER:
TITAN
GLASS & ALUMINUM, LLC
450 WEST 27TH STREET
HIALEAH, FLORIDA, 33010
PHONE: (305) 888-0911
FAX: (305) 671-3840

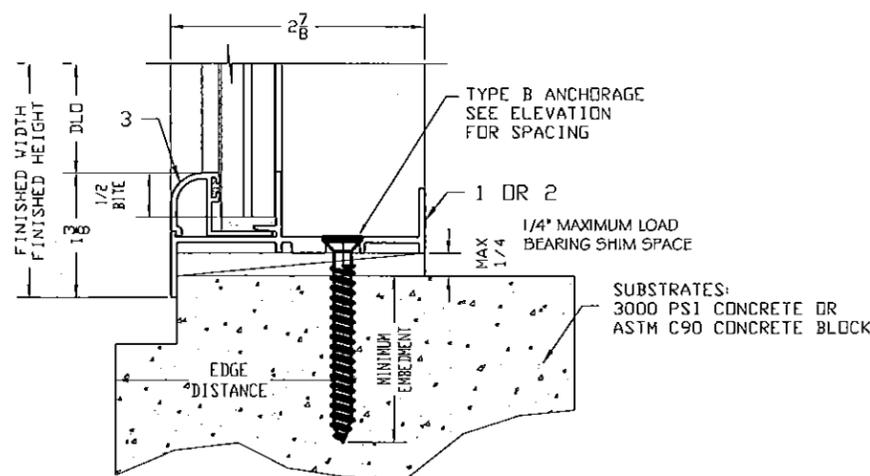
MIAMI-DADE BCCO:
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0902.04
Expiration Date March 11, 2019
By *Manuel Perez*
Miami Dade Product Control

PK
DRAFTING & MORE INC.
SCALE:
NA
DATE:
08/25/2015
DRAWING #
15-257
SHEET
3 OF 5

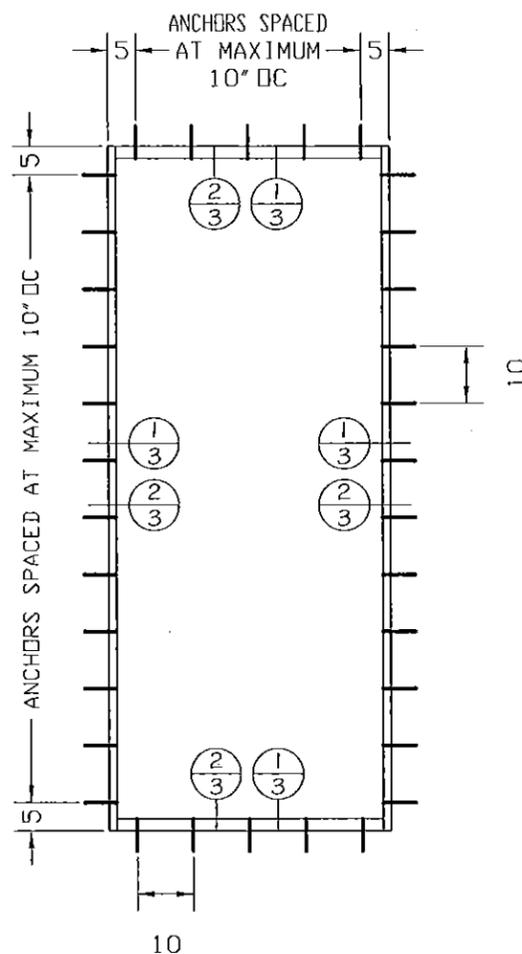
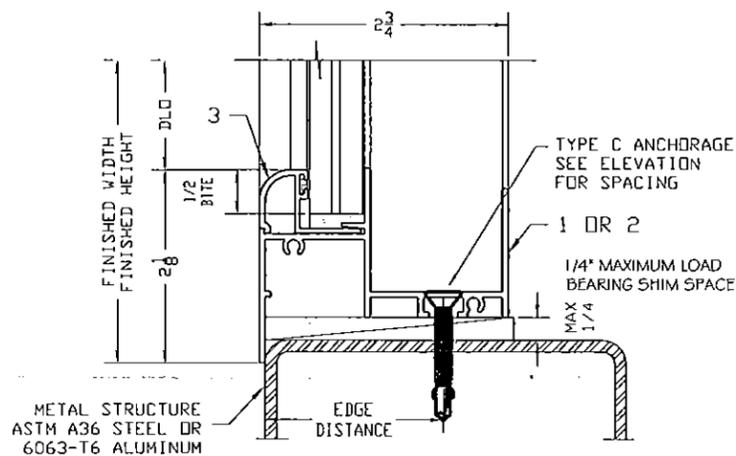
TYPE A ANCHORAGE
ANCHOR INTO 2X WOOD BUCK OR WOOD STRUCTURE



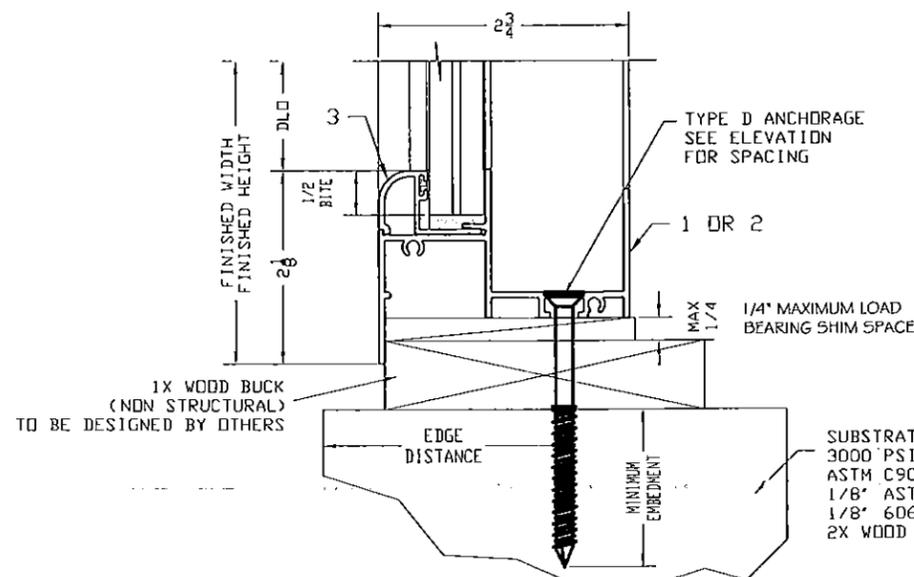
TYPE B ANCHORAGE
ANCHOR INTO CONCRETE OR MASONRY



TYPE C ANCHORAGE
ANCHOR INTO METAL STRUCTURES



TYPE D ANCHORAGE
ANCHORS THRU 1X WOOD BUCK INTO SUBSTRATE



TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACE)

TYPE A - ANCHORS INTO 2X PT STRUCTURAL BUCK

MINIMUM EMBEDMENT: 1 1/2"
EDGE DISTANCE: 1"
ANCHORS: 1/4" ULTRACONS BY ELCO
1/4" TAPCONS BY ITW BUILDEX
#14 S5 SHEET METAL SCREWS

2X BUCK TO BE DESIGNED BY OTHERS FOR IMPOSED LOADS

TYPE B - ANCHORS INTO CONCRETE ($f_c \geq 3000$ PSI) OR ASTM C90 CONCRETE BLOCK

MINIMUM EMBEDMENT: 1 1/4"
EDGE DISTANCE: 2 1/2"
ANCHORS: 1/4" ULTRACONS BY ELCO
1/4" TAPCONS BY ITW BUILDEX

TYPE C - ANCHORS INTO METAL STRUCTURES

METAL MINIMUM THICKNESS: 1/8"
MATERIAL: ALUMINUM 6063-T6 OR STEEL ASTM A36
EDGE DISTANCE: 3/4"
ANCHORS: 1/4"-14 SELF DRILLING SCREWS (GR 5)

(STEEL IN CONTACT WITH WINDOW FRAMING TO BE PLATED OR PAINTED)

TYPE D - THRU 1X BUCKS INTO SUBSTRATE

ALL ANCHORS ABOVE
(1X BUCK NON STRUCTURAL TO BE DESIGNED BY OTHERS)

ALL ANCHORAGE OPTIONS ARE APPLICABLE TO HEADER, SILL AND/OR JAMB LOCATIONS
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO
WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE ($G \geq 0.55$) AND MUST BE ANCHORED
PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS
APPROVAL.
ANCHORS INTO WOOD WERE DESIGNED USING A LOAD DURATION OF 1.6 IN ACCORDANCE WITH NDS
STANDARD



DEC 15 2015

PRODUCT:

TITAN SERIES TFX-2750
ALUMINUM FIXED WINDOW
LARGE & SMALL IMPACT RATED

MANUFACTURER:

TITAN
GLASS & ALUMINUM, LLC

450 WEST 27TH STREET
HIALEAH, FLORIDA, 33010
PHONE: (305) 888-0911
FAX: (305) 671-3840

MIAMI-DADE BCCO:

PRODUCT REVISED
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Acceptance No. 15-090204
Expiration Date March 11, 2019
By Manuel Perez
Miami Dade Product Control

PK

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NA

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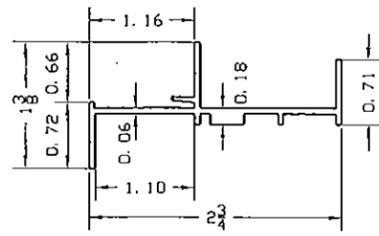
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4 OF 5

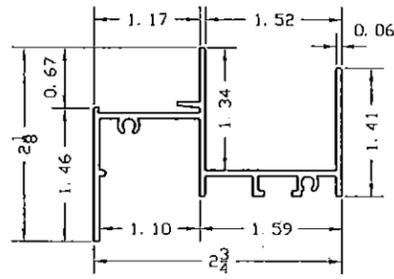
ENGINEERING SEAL
PEDRO DE FIGUEIREDO
PE 52609

ENGINEERING
ENCCO INC. - CA 8116
5595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENCCO@AOL.COM

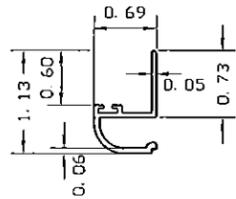
PRODUCT COMPONENTS



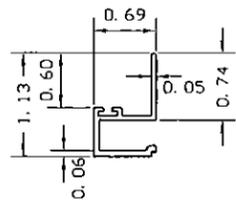
1- FSP 014 - 1 3/8 PERIMETER FRAMING HEADER, SILL AND JAMBS
6063-T6 ALUMINUM ALLOY



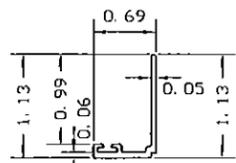
2- FSP 015 - 2 1/8 PERIMETER FRAMING HEADER, SILL AND JAMBS
6063-T6 ALUMINUM ALLOY



3- FSP 017 - ROUND GLAZING STOP
6063-T6 ALUMINUM ALLOY



3A- FSP 017A - SQR GLAZING STOP
6063-T6 ALUMINUM ALLOY

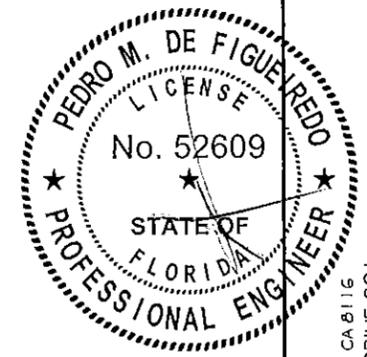
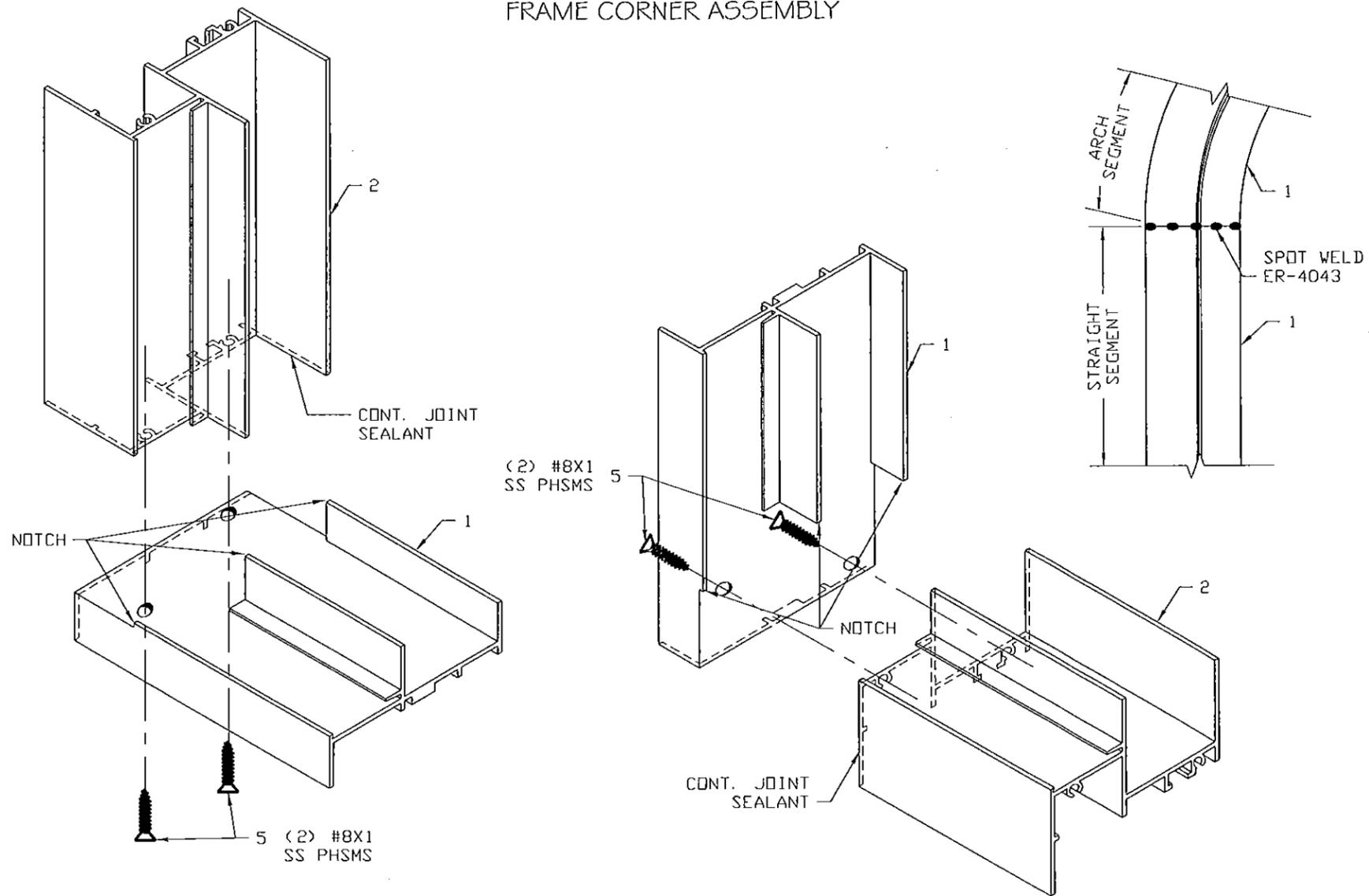


3B- FSP 017B - IG GLAZING STOP
6063-T6 ALUMINUM ALLOY

BILL OF MATERIALS:

ITEM	PART #	DESCRIPTION	MATERIAL	REMARKS
1	FSP 014	1-3/8" PERIMETER FRAME	ALUM. 6063-T6	
2	FSP 015	2-1/8" PERIMETER FRAMING	ALUM. 6063-T6	
3	FSP 017	ROUND GLAZING STOP	ALUM. 6063-T6	
3A	FSP 017A	SQUARE GLAZING STOP	ALUM. 6063-T6	
3B	FSP 017B	INSULATED GLASS GLAZING STOP	ALUM. 6063-T6	
4	SEAL 01.1	DOW 995 SILICONE	SILICONE	DOW CORNING
5		#8X1 PH SMS	STEEL	
6	SEAL 01.2	PECORA 896	SILICONE	PECORA
7	SEAL 01.3	DOW 899 SILICONE	SILICONE	DOW CORNING
8	GLASS	9/16" IMPACT LAMINATED GLASS	GLASS	LARGE MISSILE
8A	GLASS	5/16" IMPACT LAMINATED GLASS	GLASS	LARGE MISSILE
8B	GLASS	7/8" IG IMPACT LAMINATED GLASS	GLASS	LARGE MISSILE

FRAME CORNER ASSEMBLY



DEC 15 2015

ENGINEERING SEAL
PEDRO DE FIGUEIREDO
FE 52609

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