

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/building

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

NOTICE OF ACCEPTANCE (NOA)

Lawson Industries, Inc. 8501 NW 90 Street Medley, FL 33166

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 "4000 / 6000 (Flange & Fin Frame)" Aluminum Fixed Window – N.I.

APPROVAL DOCUMENT: Drawing No. **L4000/6000.01**, titled "Series 4000/6000 Aluminum Fixed Windows", sheets 1 through 12 of 12, dated 12/20/02, with revision **G** dated 08/10/20, prepared by manufacturer, signed and sealed by Thomas J. Sotos, 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: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, 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 No. 18-0430.03 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

NOA No. 20-0814.08 Expiration Date: May 08, 2023 Approval Date: October 15, 2020

Page 1

Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. **DRAWINGS**

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 09-0825.09)
- Drawing No L-4000/6000.01, titled "Series: 4000 / 6000 Aluminum Fixed Windows", 2. sheets 1 through 12 of 12, dated 12/20/02, with revision F dated 11/01/17, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 17-1212.11)

TESTS В.

- 1. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Engineering & Testing Inc., Test Report No. HETI-09-2604, dated 08/14/09, signed and sealed by Candido F. Font, P.E.
 - (Submitted under NOA No.09-0825.09)
- Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 2.
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-3619, dated 11/27/02 and FTL-3627 dated 11/27/02, signed and sealed by Joseph C. Chan, P.E.

(Submitted under NOA No. 03-0128.06)

3. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94 along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.: FTL-3620, FTL-3621, FTL-3622, FTL-3623, FTL-3624, FTL-3625, FTL-3626, all dated 11/27/02, all signed and sealed by Joseph C. Chan, P.E. (Submitted under NOA No. 03-0128.06)

C. **CALCULATIONS**

- 1. Anchor verification calculations and structural analysis, complying with FBC, dated 08/15/09, prepared by manufacturer, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No.09-0825.09)
- 2. Glazing complies with ASTM E1300-04/09

OUALITY ASSURANCE D.

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

> Manuel Perez, P.E **Product Control Examiner** NOA No. 20-0814.08 Expiration Date: May 08, 2023

Approval Date: October 15, 2020

Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S (CONTINUED)
- E. MATERIAL CERTIFICATIONS
 - 1. None.

F. STATEMENTS

- 1. Statement letter of conformance, complying with **FBC** 6th **Edition** (2017), issued by manufacturer, dated November 17, 2017, signed and sealed by Thomas J. Sotos, P.E. (Submitted under NOA No. 17-1212.11)
- 2. Department of State Certification of LAWSON INDUSTRIES, INC. as a for profit corporation, active and organized under the laws of the State of Florida, dated 04/11/14 and filed at the Secretary of State.
 - (Submitted under NOA No. 14-0908.19)
- 3. Statement letter of no financial interest, dated 08/13/09, signed and sealed by Thomas J. Sotos, P.E.
 - (Submitted under NOA No. 09-0825.09)
- 4. Laboratory compliance letter for Test Report No. **HETI-09-2604**, dated 08/14/09, issued by Hurricane Engineering & Testing, Inc., signed and sealed by Candido F. Font, P.E.
 - (Submitted under NOA No.09-0825.09)
- 5. Laboratory compliance letter for Test Reports No.: FTL-3619, FTL-3620, FTL-3621, FTL-3622, FTL-3623, FTL-3624, FTL-3625, FTL-3626, FTL-3627, all dated 11/27/02, issued by Fenestration Testing Laboratory, Inc., and signed and sealed by Joseph C. Chan, P.E. (Submitted under NOA No. 03-0128.06)

G. OTHERS

1. Notice of Acceptance No. 17-1212.11, issued to Lawson Industries, Inc. for their Series "4000/6000 Flange & Fin Frame" Aluminum Fixed Window - N.I., approved on 02/01/18 and expiring on 05/08/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 20-0814.08
Expiration Date: May 08, 2023

Approval Date: October 15, 2020

Lawson Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No L-4000/6000.01, titled "Series: 4000 / 6000 Aluminum Fixed Windows", sheets 1 through 12 of 12, dated 12/20/02, with revision **G** dated 08/10/20, prepared by manufacturer, signed and sealed by Thomas J. Sotos, 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

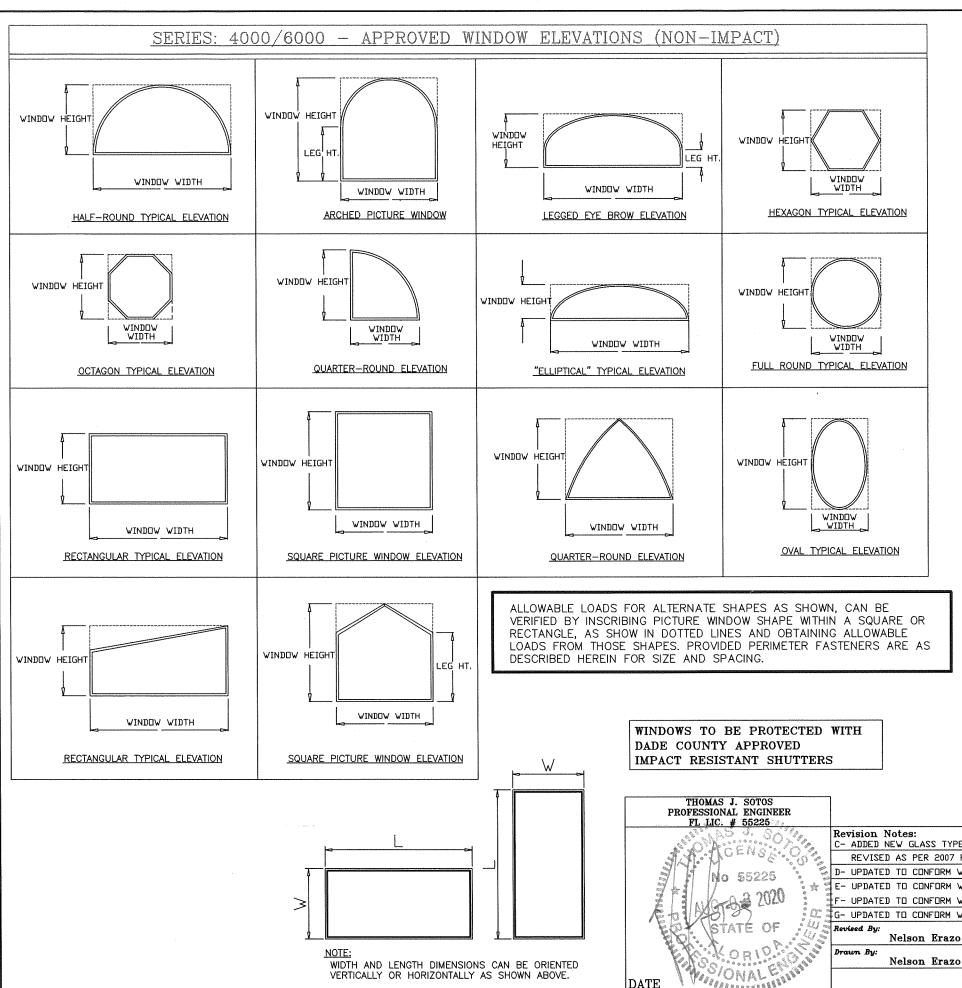
1. Statement letter of conformance, complying with **FBC** 7th **Edition (2020)**, dated 08/03/20, issued by manufacturer, signed and sealed by Thomas J. Sotos, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0430.03**, issued to Lawson Industries, Inc. for their Series "4000/6000 Flange & Fin Frame" Aluminum Fixed Window - N.I., approved on 05/10/18 and expiring on 05/08/23.

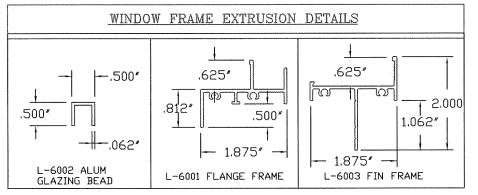
Manuel Pérez, P.E.
Product Control Examiner
NOA No. 20-0814.08
Expiration Date: May 08, 2023

Approval Date: October 15, 2020



General Notes:

- 1.) THIS WINDOW SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (2017-6th Edition & 2020-7th Edition) AND ASTM 1300-02. THIS PRODUCT IS NOT IMPACT RESISTANT. WINDOWS ARE TO BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS.
- 2.) 1 X OR 2 X WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE FBC & TO BE REVIEWED BY BUILDING OFFICIAL.
- 3.) ANCHORS SHOWN ON TYPICAL ELEVATIONS ARE AS PER TEST UNITS. ON CENTER (O.C.) ANCHOR SPACINGS WILL VARY WITH UNIT DIMENSIONS, AND THE NUMBER OF ANCHORS REQUIRED, AS SPECIFIED ON THE LOAD TABLES.
- 4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWING'S ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING
- 5.) WINDOWS ARE QUALIFIED FOR USE WITH SINGLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEETS #4, 5, 8, 10, & 11).
- 6.) WINDOWS ARE QUALIFIED FOR USE WITH DOUBLE GLAZE GLASS TYPES TABULATED HEREIN (SEE SHEETS #6, 7, & 9).
- 7.) FALSE COLONIAL MUNTINS MAY BE USED & APPLIED TO THE GLASS WITH CLEAR SILICONE CLEAR SILICONE AND MAY BE PLACED AT INTERIOR AND/OR EXTERIOR SIDES OF GLASS.
- 8.) APPROVAL APPLIES TO SINGLE UNITS, OR MULTIPLE UNITS AND MAY BE MULLED VERTICALLY OR HORIZONTALLY.
- 9.) MULLING FIXED WINDOWS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED WINDOWS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWER PRESSURE FROM THE WINDOWS APPROVAL OR MULLION APPROVAL WILL APPLY TO THE ENTIRE MULLED SYSTEM.
- 10.) SEE SHEETS # 2 & 3 FOR MULLION/METAL ATTACHMENT DETAILS & NOTES.



SEALANT:

FRAME CORNERS, OR JOINTS SEALED WITH A COLORED SEALANT AND PERIMETER OF GLAZING BEAD WITH CLEAR SILICONE

> **PRODUCT REVISED** as complying with the Florida **Building Code** NOA-No. 20-0814.08 Expiration Date: 05/08/2023

By: Manuel Peres

Miami-Dade Product Control

02	Revision Notes: C- ADDED NEW GLASS TYPE (SHEET #12) AND	
12	REVISED AS PER 2007 FBC REQUIREMENTS	MEDLEY, FLORIDA 33166 (305) 696–8660
955 655 605	D- UPDATED TO CONFORM WITH 2010 FBC	(INDUSTRIES, INC.)
4 5	E- UPDATED TO CONFORM WITH 2014 FBC	MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS
9 5	F- UPDATED TO CONFORM WITH 2017 FBC	CERTIFIC 1000 / 0000 1111/CENTRY WINDOWS
C	G- UPDATED TO CONFORM WITH 2020 FBC	SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS
416	Bosto Postend	

08/10/2020

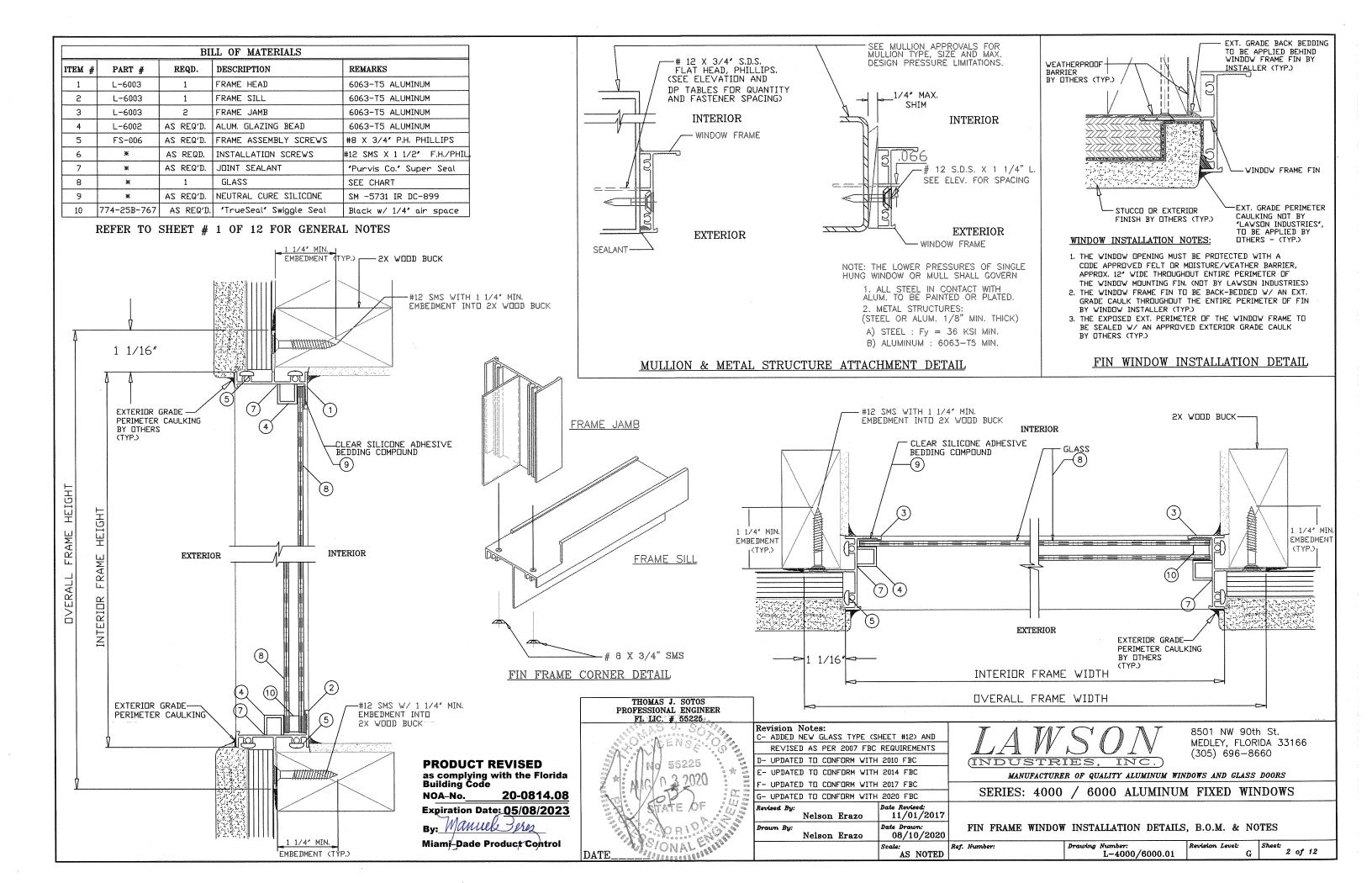
AS NOTED

cale:

11/01/2017 FLANGE & FIN FRAME WINDOW DETAILS, ELEVATIONS, SHAPES

& GENERAL INSTALLATION NOTES.

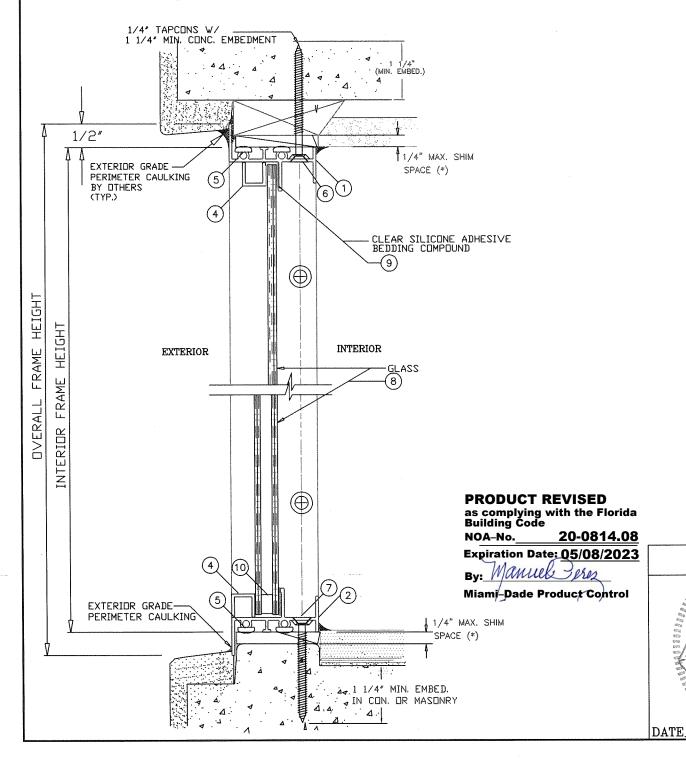
Ref. Number Revision Level: L-4000/6000.01

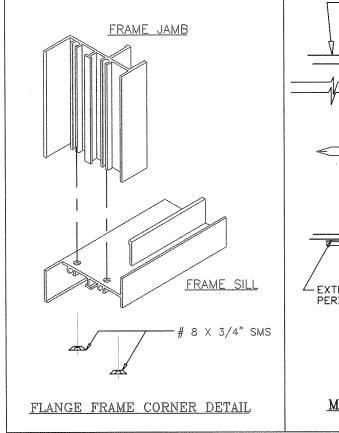


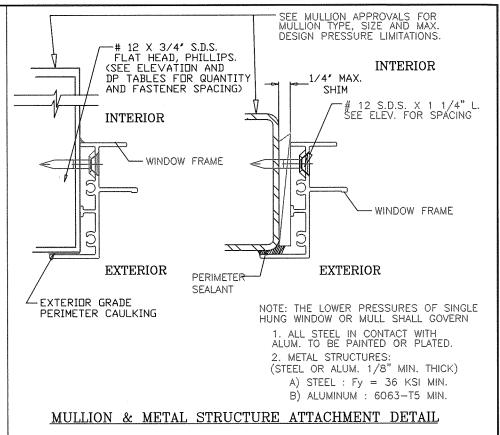
	BILL OF MATERIALS							
ITEM #	PART #	REQD.	DESCRIPTION	REMARKS				
1	L-6001	1	FRAME HEAD	6063-T5 ALUMINUM]			
2	L-6001	1	FRAME SILL	6063-T5 ALUMINUM				
3	L-6001	2	FRAME JAMB	6063-T5 ALUMINUM]			
4	L-6002	AS REQ'D.	ALUM. GLAZING BEAD	6063-T5 ALUMINUM]			
5	FS-006	AS REQ'D.	FRAME ASSEMBLY SCREWS	#8 X 3/4' P.H. PHILLIPS				
6	*	AS REQD.	INSTALLATION SCREWS	#12 SMS OR 1/4" TAPCON				
7	*	AS REQ'D.	JOINT SEALANT	"Purvis Co." Super Seal				
8	*	1	GLASS	SEE CHART]			
9	*	AS REQ'D.	NEUTRAL CURE SILICONE	SM-5731 DR DC-899				
10	774-25B-767	AS REQ'D.	'TrueSeal' Swiggle Seal	Black w/ 1/4" air space	1			

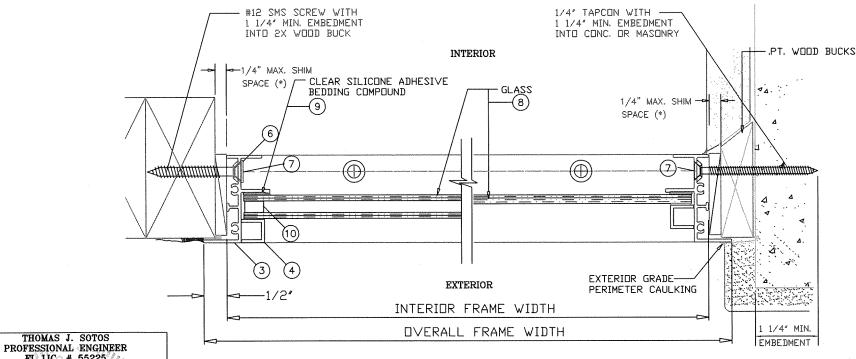
(*) WHEN THE GAP BETWEEN THE WINDOW FRAME AND THE BUCK IS LESS THAN 1/8", SHIMS ARE NOT REQUIRED.

REFER TO SHEET # 1 OF 12 FOR GENERAL NOTES









AS NOTED

Revision Notes:

C- ADDED NEW GLASS TYPE (SHEET #12) AND

REVISED AS PER 2007 FBC REQUIREMENTS

D- UPDATED TO CONFORM WITH 2010 FBC

E- UPDATED TO CONFORM WITH 2014 FBC

F- UPDATED TO CONFORM WITH 2017 FBC

G- UPDATED TO CONFORM WITH 2020 FBC

Revised By:

Nelson Erazo

Nelson Erazo

Nelson Erazo

08/10/2020

V//ONALE

LAWSON (INDUSTRIES, INC.)

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

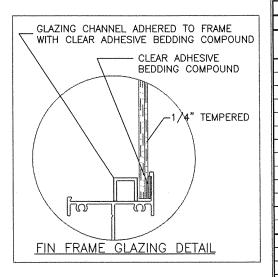
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

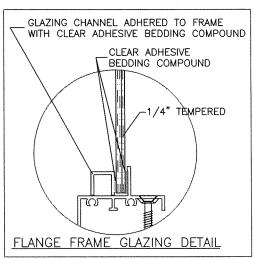
SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

THE STATE OF THE S

FLANGE FRAME WINDOW INSTALLATION DETAILS, B.O.M. & NOTES

Ref. Number: Drawing Number: L-4000/6000.01 Revision Level: Sheet: 3 of 12





85,000* WINDOW LENGTH 82,126* D.L. DPG,

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED							
Windo	w Size	FIN FRAME DESIGN LOAD		LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)			
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	18	10	8	100.0	100.0		
36	18	14	7	100.0	100.0		
48	18	19	6	100.0	100.0		
60	18	23	6	100.0	100.0		
72	18	28	6	100.0	100.0		
84	18	32	6	100.0	100.0		
96	18	37	6	100.0	100.0		
108	18	41	6	100.0	100.0		
120	18	46	6	100.0	100.0		
132	18	50	6	100.0	100.0		
144	18	55	5	100.0	100.0		
148	18	57	5	100.0	100.0		
156	18	60	5	100.0	100.0		
24	24	13	7	100.0	100.0		
36	24	19	6	100.0	100.0		
48	24	25	5	100.0	100.0		
60	24	31	5	100.0	100.0		
72	24	37	5	100.0	100.0		
84	24	43	5	100.0	100.0		
96	24	49	4	100.0	100.0		
108	24	55	4	100.0	100.0		
120	24	61	4	100.0	100.0		
132	24	67	4	100.0	100.0		
144	24	73	4	100.0	100.0		
148	24	75	4	100.0	100.0		
156	24	79	4	100.0	100.0		
24	30	16	6	100.0	100.0		
36	30	23	5	100.0	100.0		
48	30	31	5	100.0	100.0		
60	30	38	4	100.0	100.0		
72	30	46	4	100.0	100.0		
84	30	54	4	100.0	100.0		
96	30	61	4	100.0	100.0		
108	30	69	4	100.0	100.0		
120	30	76	3	100.0	100.0		
132	30	84	3	100.0	100.0		
144	30	91	3	100.0	100.0		
148	30	94	3	100.0	100.0		
156	30	99	3	100.0	100.0		

WIND	WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED						
Windo	w Size	FIN FRAME		DESIGN LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)		
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	36	19	6	100.0	100.0		
36	36	28	5	100.0	100.0		
48	36	37	4	100.0	100.0		
60	36	46	4	100.0	100.0		
72	36	55	3	100.0	100.0		
84	36	64	3	100.0	100.0		
96	36	73	3	100.0	100.0		
108	36	82	. 3	100.0	100.0		
120	36	91	3	100.0	100.0		
132	36	100	3	100.0	100.0		
144	36	110	3	100.0	100.0		
148	36	113	3	100.0	100.0		
156	36	119	3	100.0	100.0		
24	48	25	5	100.0	100.0		
36	48	37	4	100.0	100.0		
48	48	49	3	100.0	100.0		
60	48	61	3	100.0	100.0		
72	48	73	3	100.0	100.0		
84	48	85	3	100.0	100.0		
96	48	97	2	100.0	100.0		
108	48	110	2	100.0	100.0		
120	48	113	2	93.1	93.1		
132	48	111	3	83.2	83.2		
144	48	114	3	78.3	78.3		
148	48	115	3	76.7	76.7		
156	48						
24	60	31	5	100.0	100.0		
36	60	46	4	100.0	100.0		
48	60	61	3	100.0	100.0		
60	60	76	3	100.0	100.0		
72	60	91	2	100.0	100.0		
84	60	107	2	100.0	100.0		
96	60	122	2	100.0	100.0		
108	60	137	2	100.0	100.0		
120	60	139	2	91.6	91.6		
132	60						
144	60						
148	60						
156	60						

Windo	w Size	FIN FRAME		DESIGN LOAD		
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	
24	72	37	5	100.0	100.0	
36	72	55	3	100.0	100.0	
48	72	73	3	100.0	100.0	
60	72	91	2	100.0	100.0	
72	72	110	2	100.0	100.0	
84	72	128	2	100.0	100.0	
96	72	143	2	98.2	98.2	
108	72					
120	72					
132	72					
144	72					
148	72					
156	72					
24	84	43	5	100.0	100.0	
36	84	64	3	100.0	100.0	
48	84	85	3	100.0	100.0	
60	84	107	2	100.0	100.0	
72	84	128	2	100.0	100.0	
84	84	149	2	100.0	100.0	
96	84					
108	84				SPBALLING ALBERT OF THE PROPERTY OF THE PROPER	
120	84					
132	84					
144	84					
148	84					
156	84					
19.125	26	11	8	100.0	100.0	
26.5	26	15	7	100.0	100.0	
37	26	21	6	100.0	100.0	
53.125	26	30	5	100.0	100.0	
19.125	38.375	16	7	100.0	100.0	
26.5	38.375	22	5	100.0	100.0	
37	38.375	30	5	100.0	100.0	
53.125	38.375	43	4	100.0	100.0	
19.125	50.625	21	6	100.0	100.0	
26.5	50.625	29	5	100.0	100.0	
37	50.625	40	4	100.0	100.0	
53.125	50.625	57	3	100.0	100.0	
19.125	58	24	6	100.0	100.0	
26.5	58	33	5	100.0	100.0	
37	58	46	4	100.0	100.0	
53.125	58	65	3	100.0	100.0	
19.125	63	26	6	100.0	100.0	
26.5	63	36	4	100.0	100.0	
37	63	50	3	100.0	100.0	
53.125	63	71		100.0	100.0	
19.125	74.25	30	6	100.0	100.0	
26.5	74.25	42	4	100.0	100.0	
37	74.25	58	3	100.0	100.0	
53.125	74.25	84	3	100.0	100.0	

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" TEMPERED



6" MAX. TYP.

AT CORNERS

TYP.

1/4"-TEMP. GLASS

TYPICAL ELEVATION

TESTED UNIT

1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.

DATE

2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

THOMAS J. SOTOS

PROFESSIONAL ENGINEER

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

PRODUCT REVISED as complying with the Florida Building Code 20-0814.08 NOA-No. Expiration Date: 05/08/2023

By: Manuel Perez Miami-Dade Product Control

MAX. TYP. UNIT PERFORMANCE DATA REPORT #FTL-3619 TEST SIZE = 85" wide X 85" hi (0) DESIGN LOADS = +104.0, -104.0 PSF (PA-202) STRUCTURAL TEST LOAD = +156.0, -156.0 PSF WATER INFILTRATION TEST = 18.0 PSF

DAYLIGHT OPENING = 82 1/8" wide X 82 1/8" hi

TESTED GLASS = 1/4" TEMPERED GLASS

Revision Notes: C- ADDED NEW GLASS TYPE (SHEET #12) AND REVISED AS PER 2007 FBC REQUIREMENTS D- UPDATED TO CONFORM WITH 2010 FBC E- UPDATED TO CONFORM WITH 2014 FBC F- UPDATED TO CONFORM WITH 2017 FBC Nelson Erazo Nelson Erazo

(INDUSTRIES, INC.)

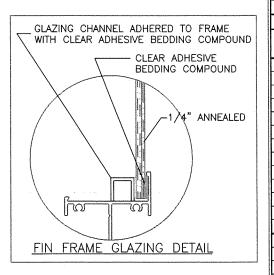
8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

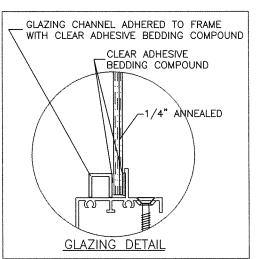
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

G- UPDATED TO CONFORM WITH 2020 FBC Date Revised: 11/01/2017 Date Drawn 08/10/2020 AS NOTED

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES 1/4" TEMPERED GLASS Sheet: 4 of 12 L-4000/6000.01





60.000"

D.L. OPG.

1/4"- ANNEALED

TYPICAL ELEVATION

TESTED UNIT

60,000" WINDOW LENGTH 57,126" D.L. DPG,

12.000" MAX

TYP.

6" MAX. TYP. AT CORNERS

12" MAX. TYP.

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/4" ANNEALED							
Windo	w Size	FIN FRAME		DESIGN LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)		
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	18	10	8	100.0	100.0		
36	18	14	7	100.0	100.0		
48	18	18	7	97.2	97.2		
60	18	22	7	92.9	92.9		
72	18	25	7	90.3	90.3		
84	18	29	7	88.5	88.5		
96	18	32	7	87.2	87.2		
108	18	36	7	86.2	86.2		
120	18	39	7	85.4	85.4		
132	18	43	6	84.8	84.8		
144	18	46	7	84.3	84.3		
148	18	48	6	84.1	84.1		
156	18	50	6	83.8	83.8		
24	24	13	7	100.0	100.0		
36	24	17	7	88.9	88.9		
48	24	20	7	79.0	79.0		
60	24	23	7	74.1	74.1		
72	24	26	7	71.1	71.1		
84	24	30	7	69.1	69.1		
96	24	33	7	67.7	67.7		
108	24	37	7	66.7	66.7		
120	24	40	7	65.8	65.8		
132	24	44	7	65.2	65.2		
144	24	48	7	64.6	64.6		
148	24	49	7	64.5	64.5		
156	24						
24	30	15	7	98.8	98.8		
36	30	19	6	81.3	81.3		
48	30	21	7	68.9	68.9		
60	30	24	7	63.2	63.2		
72	30	28	7	59.9	59.9		
84	30	31	7	57.7	57.7		
96	30	34	7	55.4	55.4		
108	30	36	7	52.5	52.5		
120	30	39	7	51.2	51.2		
132	30						
144	30						
148	30						
156	30						

				MMM	
WIND	OW COMP.	ARATIVE AN	ALYSIS CHAI	RT FOR 1/4" AI	NNEALED
	w Size	FIN FRAME		DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	17	7	88.9	88.9
36	36	22	6	79.0	79.0
48	36	23	7	63.2	63.2
60	36	26	7	56.4	56.4
72	36	28	7	50.1	50.1
84	36	28	8	43.2	43.2
96	36	29	9	39.5	39.5
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	20	7	79.0	79.0
36	48	23	7	63.2	63.2
48	48	29	6	59.3	59.3
60	48	30	7	49.4	49.4
72	48	33	7	44.4	44.4
84	48				
96	48		Estation of the Higgs of the Control		
108	48				
120	48				
132	48				
144	48				
148	48	43 EU 111 1136 EU 1146 E 120 146 EU 1120 EU 1166 EU		alannia, na bio dhe, ma Bantennia neoladha	
156	48			7/ /	74.4
24	60	23	7	74.1	74.1
36	60	26 30	7	56.4 49.4	56.4 49.4
48 60	60 60	36	6	49.4	49.4
		30	O CONTRACTOR	47.4 Bisidestabilidates	
72	60				
84 96	60				
	60 60				
108					
120	60				
132	60				
144 148	60 60			speleti s apitus ja miej. Roga jegoga papara	
148 156	60			egaretru igililili (1919). Helsyn verrendes en detsa	
100	00				

WINDOW FRAME SIZ	E NOTE:	
FLANGE WINDOW E 2. ADD 1 1/8' TO TH	SHOWN ON CHARTS ARE FOR THE EXTERIOR OVERALL DIMENSION. HE FLANGE WINDOW SIZE TO DETERMIN EXTERIOR OVERALL DIMENSION.	NE
AME ANCHORS ARE ER THAN 6" FROM REATER THAN 12" N FRAME ANCHORS ABOVE.	EACH CORNER, CENTER TO	PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0814.08 Expiration Date: 05/08/2023 By: Manual Pro
	THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225	Miami-Dade Product Control
	SA. CENES OF	Revision Notes: C- ADDED NEW GLASS TYPE (SHEET #12) / REVISED AS PER 2007 FBC REQUIREMEN
<u>ΓΑ</u>	3/1/1/10 55225	D- UPDATED TO CONFORM WITH 2010 FBC E- UPDATED TO CONFORM WITH 2014 FBC
(0)	1 125 mm	F- UPDATED TO CONFORM WITH 2014 FBC

	w Size		RAME	RT FOR 1/4" AI	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR		Y - (PFS)
		· ·		POSITIVE	NEGATIV
INCHES	INCHES	ANCHORS	SPACING (IN)		
24	72	26	7	71.1	71.1
36	72	28	7	50.1	50.1
48	72	33	7	44.4	44.4
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	30	7	69.1	69.1
36	84	28	8	43.2	43.2
48	84				HUHBRUH
60	84				
72	84				
84	84				
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	18	7	84.3	84.3
	l 26	22	7	72.4	72.4
53.125	20		1 7	99.0	99.0
	38.375	16	7	99.0	
53.125		16 18	7	82.0	82.0
53.125 19.125	38.375				82.0 74.2
53.125 19.125 26.5	38.375 38.375	18	7	82.0	
53.125 19.125 26.5 37	38.375 38.375 38.375	18 23	7 6	82.0 74.2	74.2
53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 38.375	18 23 25	7 6 7	82.0 74.2 58.0	74.2 58.0
53.125 19.125 26.5 37 53.125 19.125	38.375 38.375 38.375 38.375 50.625	18 23 25 19	7 6 7	82.0 74.2 58.0 91.7	74.2 58.0 91.7
53.125 19.125 26.5 37 53.125 19.125 26.5	38.375 38.375 38.375 38.375 50.625 50.625	18 23 25 19 21	7 6 7 7	82.0 74.2 58.0 91.7 72.7	74.2 58.0 91.7 72.7
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 38.375 50.625 50.625 50.625 50.625	18 23 25 19 21 24 31	7 6 7 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6	74.2 58.0 91.7 72.7 60.6
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58	18 23 25 19 21 24 31 21	7 6 7 7 7 7 7 6	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0	74.2 58.0 91.7 72.7 60.6 53.7 89.0
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58	18 23 25 19 21 24 31 21 23	7 6 7 7 7 7 7 6 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58	18 23 25 19 21 24 31 21 23 26	7 6 7 7 7 7 6 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 58	18 23 25 19 21 24 31 21 23 26 33	7 6 7 7 7 7 6 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 58 58	18 23 25 19 21 24 31 21 23 26 33 23	7 6 7 7 7 7 6 7 7 7 6	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 58 63 63	18 23 25 19 21 24 31 21 23 26 33 23 24	7 6 7 7 7 7 6 7 7 7 6	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 63 63 63	18 23 25 19 21 24 31 21 23 26 33 23 24 27	7 6 7 7 7 7 6 7 7 7 6 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 63 63 63 63	18 23 25 19 21 24 31 21 23 26 33 23 24 27	7 6 7 7 7 7 6 7 7 7 6 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 63 63 63 63 74.25	18 23 25 19 21 24 31 21 23 26 33 23 24 27 33 26	7 6 7 7 7 7 6 7 7 7 6 7 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 63 63 63 63 74.25	18 23 25 19 21 24 31 21 23 26 33 23 24 27 33 26 28	7 6 7 7 7 7 6 7 7 7 6 7 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3 65.3	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3 65.3
53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125 19.125 26.5 37 53.125	38.375 38.375 38.375 50.625 50.625 50.625 50.625 58 58 63 63 63 63 74.25	18 23 25 19 21 24 31 21 23 26 33 23 24 27 33 26	7 6 7 7 7 7 6 7 7 7 6 7 7 7 7	82.0 74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3	74.2 58.0 91.7 72.7 60.6 53.7 89.0 69.5 56.4 49.4 87.7 68.0 54.4 46.3 85.3



NOT GREATER THAN 6" AND NOT GREATER THAN CENTER. FIN FRAME ANC

TABULATED ABOVE.

UNIT PERFORMANCE DATA

REPORT #FTL-3620 TEST SIZE = 60" wide X 60" hi (0) DESIGN LOADS = +47.40, -47.40 PSF (PA-202) STRUCTURAL TEST LOAD = +71.10, -71.10 PSF WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 DAYLIGHT OPENING = $57 \frac{1}{8}$ " wide X 57 $\frac{1}{8}$ " hi TESTED GLASS = 1/4" ANNEALED GLASS

#12) AND IREMENTS FBC (INDUSTRIES, INC.)

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES 1/4" ANNEALED GLASS

DATE

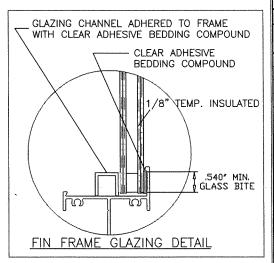
08/10/2020 Nelson Erazo Scale: AS NOTED

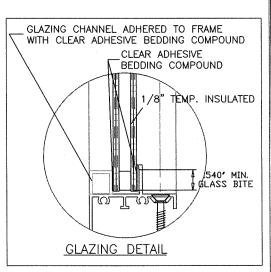
Date Revised: 11/01/2017

G- UPDATED TO CONFORM WITH 2020 FBC

Nelson Erazo

Revision Level: Ref. Number: L-4000/6000.01



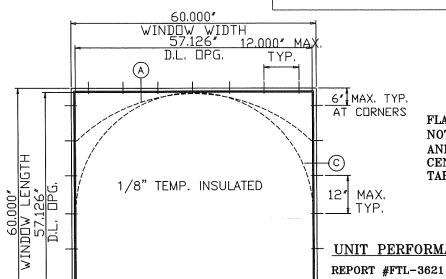


WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED						
Windo	w Size	FIN FRAME		DESIGN LOAD		
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	
24	18	10	8	100.0	100.0	
36	18	14	7	100.0	100.0	
48	18	19	6	100.0	100.0	
60	18	23	6	100.0	100.0	
72	18	28	6	100.0	100.0	
84	18	32	6	100.0	100.0	
96	18	37	6	100.0	100.0	
108	18	41	6	100.0	100.0	
120	18	46	6	100.0	100.0	
132	18					
144	18					
148	18					
156	18					
24	24	13	7	100.0	100.0	
36	24	19	6	100.0	100.0	
48	24	25	5	100.0	100.0	
60	24	31	5	100.0	100.0	
72	24	37	5	100.0	100.0	
84	24	43	5	100.0	100.0	
96	24	49	4	100.0	100.0	
108	24	55	4	100.0	100.0	
120	24	61	4	100.0	100.0	
132	24					
144	24					
148	24					
156	24					
24	30	16	6	100.0	100.0	
36	30	23	5	100.0	100.0	
48	30	31	5	100.0	100.0	
60	30	38	4	100.0	100.0	
72	30	46	4	100.0	100.0	
84	30	54	4	100.0	100.0	
96	30	61	4	100.0	100.0	
108	30	69	4	100.0	100.0	
120	30	76	3	100.0	100.0	
132	30					
144	30					
148	30					
156	30				50 10 10 10 10 10 10 10	

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED							
Window Size		FIN FRAME		DESIGN LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)		
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	36	19	6	100.0	100.0		
36	36	28	5	100.0	100.0		
48	36	37	4	100.0	100.0		
60	36	46	4	100.0	100.0		
72	36	55	3	100.0	100.0		
84	36	64	3	100.0	100.0		
96	36	73	3	100.0	100.0		
108	36						
120	36						
132	36		100-01-01-01-01-01-01-01-01-01-01-01-01-				
144	36						
148	36						
156	36						
24	48	25	5	100.0	100.0		
36	48	37	4	100.0	100.0		
48	48	49	3	100.0	100.0		
60	48	61	3	100.0	100.0		
72	48	73	3	100.0	100.0		
84	48			5 (10 kg) (10			
96	48						
108	48				100000000000000000000000000000000000000		
120	48						
132	48						
144	48				am ream property and a local state of the second		
148	48						
156	48						
24	60	31	5	100.0	100.0		
36	60	46	4	100.0	100.0		
48	60	61	3	100.0	100.0		
60	60	76	3	100.0	100.0		
72	60						
84	60						
96	60		in this contract the				
108	60						
120	60						
132	60						
144	60						
148	60						
156	60						

				OK 1/6 TEMP. INSOLATED		
Window Size		FIN FRAME		DESIGN LOAD		
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	
24	72	37	5	100.0	100.0	
36	72	55	3	100.0	100.0	
48	72	73	3	100.0	100.0	
60	72					
72	72			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
84	72					
96	72					
108	72					
120	72					
132	72					
144	72					
148	72					
156	72					
24	84	43	5	100.0	100.0	
36	84	64	3	100.0	100.0	
48	84					
60	84					
72	84					
84	84					
96	84					
108	84					
120	84					
132	84					
144	84					
148	84					
156	84					
19.125	26	11	8	100.0	100.0	
26.5	26	15	7	100.0	100.0	
37	26	21	6	100.0	100.0	
53.125	26	30	5	100.0	100.0	
19.125	38.375	16	7	100.0	100.0	
26.5	38.375	22	5	100.0	100.0	
37	38.375	30	5	100.0	100.0	
53.125	38.375	43	4	100.0	100.0	
19.125	50.625	21	6	100.0	100.0	
26.5	50.625	29	5	100.0	100.0	
37	50.625	40	4	100.0	100.0	
53.125	50.625	57	3	100.0	100.0	
19.125	58	24	6	100.0	100.0	
26.5	58	33	5	100.0	100.0	
37	58	46	4	100.0	100.0	
53.125	58	65	3	100.0	100.0	
19.125	63	26	6	100.0	100.0	
26.5	63	36	4	100.0	100.0	
37	63	50	4	100.0	100.0	
53.125	63	71	3	100.0	100.0	
19.125	74.25	30	6	100.0	100.0	
26.5	74.25	42	4	100.0	100.0	
37	74.25	58	3	100.0	100.0	
53.125	74.25					

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" TEMP. INSULATED



TYPICAL ELEVATION

TESTED UNIT

WINDOW FRAME SIZE NOTE:

- 1, THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8' TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

THOMAS J. SOTOS

PRODUCT REVISED as complying with the Florida Building Code 20-0814.08 NOA-No. Expiration Date: 05/08/2023 By: Manuel Perez

Miami-Dade Product Control

UNIT PERFORMANCE DATA

TEST SIZE= 60" wide X 60" hi (0) DESIGN LOADS= +144.00, -144.00 PSF (PA-202) STRUCTURAL TEST LOAD= +216.00, -216.00 PSF WATER INFILTRATION TEST= 18.0 PSF @ #FTL-361 DAYLIGHT OPENING= 57 1/8" wide X 57 1/8" hi TESTED GLASS= 1/8" TEMPERED GLASS DOUBLE GLAZED INSULATED

ı	PROFESSIONAL ENGINEER	
- 1	FL LIC. # 55225	
	No/55225	
9		
	ONAL STREET	
	DATE	

	the second secon	
	Revision Notes: C- ADDED NEW GLASS TYPE (SHEET #12) AND	
	REVISED AS PER 2007 FBC REQUIREMENTS	
	D- UPDATED TO CONFORM WITH 2010 FBC	(INI)
	E- UPDATED TO CONFORM WITH 2014 FBC	
1	F- UPDATED TO CONFORM WITH 2017 FBC	

G- UPDATED TO CONFORM WITH 2020 FBC Date Revised: 11/01/2017 Nelson Erazo Nelson Erazo 08/10/2020 Scale:
AS NOTED



8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

6 of 12

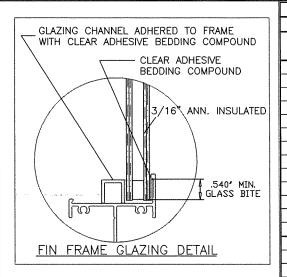
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

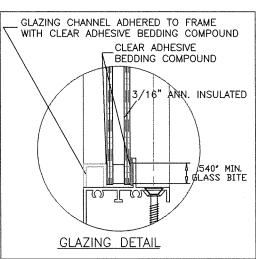
SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

1/2" INSULATED TEMPERED GLASS

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES Revision Level:

L-4000/6000.01





WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED							
Window Size		FIN FRAME		DESIGN LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)		
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	18	10	8	100.0	100.0		
36	18	14	7	100.0	100.0		
48	18	19	6	100.0	100.0		
60	18	23	6	100.0	100.0		
72	18	28	6	100.0	100.0		
84	18	32	6	100.0	100.0		
96	18	37	6	100.0	100.0		
108	18	41	6	100.0	100.0		
120	18	46	6	100.0	100.0		
132	18	50	6	100.0	100.0		
144	18	55	5	100.0	100.0		
148	18	57	5	100.0	100.0		
156	18	60	5	100.0	100.0		
24	24	13	7	100.0	100.0		
36	24	19	6	100.0	100.0		
48	24	25	5	100.0	100.0		
60	24	31	5	100.0	100.0		
72	24	37	5	100.0	100.0		
84	24	43	5	99.0	99.0		
96	24	48	5	97.0	97.0		
108	24	53	4	95.5	95.5		
120	24	58	4	94.3	94.3		
132	24	63	4	93.4	93.4		
144	24	68	4	92.6	92.6		
148	24	70	4	92.4	92.4		
156	24						
24	30	16	6	100.0	100.0		
36	30	23	5	100.0	100.0		
48	30	30	5	98.8	98.8		
60	30	35	5	90.5	90.5		
72	30	37	5	80.9	80.9		
84	30	39	5	72.8	72.8		
96	30	42	6	68.7	68.7		
108	30	45	6	65.2	65.2		
120	30	48	6	63.1	63.1		
132	30						
144	30						
148	30						
	1	■rosect o towar to écol dé débité i	 ************************************		ACT - TO A DESCRIPTION OF THE PARTY OF THE		

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED						
Windo	w Size	FIN FRAME		DESIGN LOAD		
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	
24	36	19	6	100.0	100.0	
36	36	28	5	100.0	100.0	
48	36	33	5	90.5	90.5	
60	36	37	5	80.8	80.8	
72	36	39	5	70.8	70.8	
84	36	37	6	58.0	58.0	
96	36	38	6	50.9	50.9	
108	36					
120	36					
132	36					
144	36					
148	36					
156	36				110000000000000000000000000000000000000	
24	48	25	5	100.0	100.0	
36	48	33	5	90.5	90.5	
48	48	42	4	84.9	84.9	
60	48	43	5	70.7	70.7	
72	48	47	5	63.7	63.7	
84	48					
96	48					
108	48					
120	48					
132	48					
144	48					
148	48					
156	48					
24	60	31	5	100.0	100.0	
36	60	37	5	80.8	80.8	
48	60	43	5	70.7	70.7	
60	60	52	4	67.9	67.9	
72	60					
84	60					
96	60					
108	60					
120	60					
132	60			0.107 10.000 10.0		
144	60					
148	60					
156	60					
					<u> </u>	

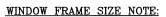
veniuo	W SIZE	1 1111 1	INAME	DESIGN	LOAD
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	72	37	5	100.0	100.0
36	72	39	5	70.8	70.8
48	72	47	5	63.7	63.7
60	72				
72	72				
84	72				
96	72				
108	72				
120	72				
132	72				
144	72				
148	72				
156	72				
24	84	43	5	99.0	99.0
36	84	37	6	58.0	58.0
48	84				
60	84				
72	84				
84	84			August 18 (18 Berlin) in the land of the l	
96	84				
108	84				
120	84				
132	84				
144	84				
148	84				
156	84				
19.125	26	11	8	100.0	100.0
26.5	26	15	7	100.0	100.0
37	26	21	6	100.0	100.0
53.125	26	30	5	100.0	100.0
19.125	38.375	16	7	100.0	100.0
26.5	38.375	22	5	100.0	100.0
37	38.375	30	5	100.0	100.0
53.125	38.375	36	5	83.1	83.1
19.125	50.625	21	6	100.0	100.0
26.5	50.625	29	5	100.0	100.0
37	50.625	35	5	86.8	86.8
53.125	50.625	44	4	76.9	76.9
19.125	58	24	6	100.0	100.0
26.5	58	33	5	99.6	99.6
37	58	37	5	80.8	80.8
53.125	58	46	4	70.7	70.7
19.125	63	26	6	100.0	100.0
26.5	63	35	5	97.3	97.3
37	63	39	5	77.9	77.9
53.125	63	47	4	66.3	66.3
19.125	74.25	30	6	100.0	100.0
26.5	74.25	39	5	93.6	93.6

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANN. INSULATED

DESIGN LOAD

FIN FRAME

Window Size



- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0814.08 **Expiration Date: 05/08/2023**

By: Manuel Peres

Miami-Dade Product Control

-			
	9	60.000" WINDOW WIDTH 57.126" D.L. OPG.	
	1 1	A B.C. UPG.	6″ MAX. TYP.
			AT CORNERS
	NGTH 5.	/ 3/16" ANN. INSULATED	©
	60,000" IDW LEN 57,126" J.L. DPG	TYPICAL ELEVATION TESTED UNIT	12" MAX. TYP.
	WINDE S D.I		UNIT PERFO
	_	B	REPORT #FTL-3 TEST SIZE = 60 DESIGN LOADS = STRUCTURAL TES WATER INFILTRAT
	<u> </u>		DAYLIGHT OPENII TESTED GLASS =
		TYPICAL ELEVATION	ILSIED GLASS =

TESTED UNIT

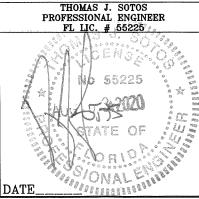
INIT PERFORMANCE DATA

EPORT #FTL-3622

156

30

ST SIZE = 60" wide X 60" hi (0) ESIGN LOADS = +67.90, -67.90 PSF (PA-202) RUCTURAL TEST LOAD = +101.9, -101.9 PSF ATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 AYLIGHT OPENING = 57 1/8" wide X 57 1/8" hi STED GLASS = 3/16" ANNEALED GLASS DOUBLE GLAZED INSULATED



evision Notes: ADDED NEW GLASS TYPE (SHEET #12) AND	T A TA
REVISED AS PER 2007 FBC REQUIREMENTS	
- UPDATED TO CONFORM WITH 2010 FBC	(INDUSTI
- UPDATED TO CONFORM WITH 2014 FBC	MANUFACTU

F- UPDATED TO CONFORM WITH 2017 FBC G- UPDATED TO CONFORM WITH 2020 FBC

Date Revised: 11/01/2017 Nelson Erazo Date Drawn 08/10/2020 Nelson Erazo AS NOTED



74.25

74.25

37

53.125

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

68.3

68.3

TURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

5

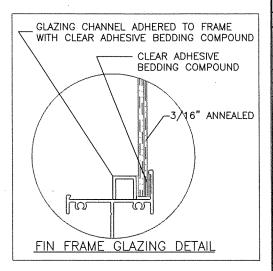
SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

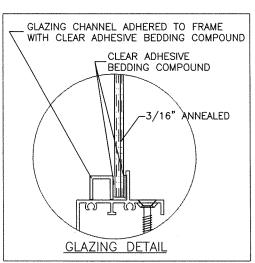
FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES

5/8" INSULATED ANNEALED GLASS

Sheet: 7 of 12 Ref. Number: Frawing Number: L-4000/6000.01

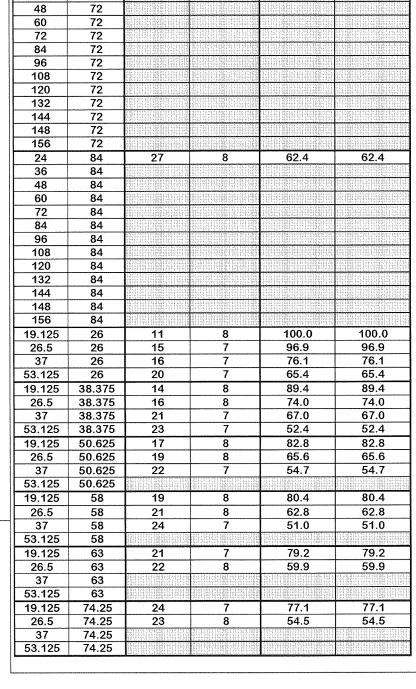
40





Niches Niches Niches Anchors Spacing (in) Positive Negative 24 18 10 8 100.0 100.0 103.36 18 13 8 95.1 95.1 95.1 36 3 36 34 8 18 16 8 87.8 87.8 87.8 88.9 60 18 20 7 83.9 83.9 60 3 72 18 23 7 78.5 81.5 81.5 72 3 39 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.9 39.0 3	WINDO	W COMPA	RATIVE ANA	LYSIS CHAR	T FOR 3/16" A	NNEALED	WINDO	ow co
Niches Niches Niches Anchors Spacing (IN) Positive Negative 24 18 10 8 100.0 100.0 36 38 36 48 18 16 8 87.8 87.8 87.8 88.78 89.78 89.28	Windo	w Size	FIN FRAME		DESIGN LOAD		Window Siz	
24 18 10 8 100.0 100.0 36 18 13 8 95.1 95.1 36 36 38 48 38 95.1 95.1 36 3 36 38 38 95.1 95.1 36 3 36 38 38 98 38.9 70 78.7 83.9 33.9 60 33 98 60 33 72 18 23 7 78.7 78.7 78.7 78.7 78.7 78.7 96 38 43 36 72 33 43 36 77 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 100.0 100.0 100.0 100.0 100.0 100.0 100.0 24 44 43 44 44 44 44 44 44 44 44 44 44 <	HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	HEIGHT	WID
24 18 10 8 100.0 100.0 36 18 13 8 95.1 95.1 36 36 38 48 38 95.1 95.1 36 3 36 38 38 95.1 95.1 36 3 36 38 38 98 38.9 70 78.7 83.9 33.9 60 33 98 60 33 72 18 23 7 78.7 78.7 78.7 78.7 78.7 78.7 96 38 43 36 72 33 43 36 77 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 77.1 100.0 100.0 100.0 100.0 100.0 100.0 100.0 24 44 43 44 44 44 44 44 44 44 44 44 44 <	INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	. INCHES	INCH
48 18 16 8 87.8 87.8 60 18 20 7 83.9 83.9 83.9 72 18 20 7 83.9 83.9 83.9 60 3 84 18 26 7 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 79.9 76.7 77.8 77.8 77.8 77.8 77.8 77.8 77.8 77.8 77.1 77.2 4 4 36.9 66	24	18	10		100.0	100.0	24	36
60 18 20 7 83.9 83.9 72 18 23 7 81.5 81.5 72 3 84 18 26 7 79.9 79.9 79.9 96 3 84 3 396 18 29 7 78.7 78.7 96 3 3 108 18 32 7 77.8 77.8 77.8 96 3 3 108 33 33 108 33 33 108 33 33 33 33 34 <td>36</td> <td>18</td> <td>13</td> <td>8</td> <td>95.1</td> <td>95.1</td> <td>36</td> <td>30</td>	36	18	13	8	95.1	95.1	36	30
72 18 23 7 81.5 81.5 72 3 84 18 26 7 79.9 79.9 79.9 84 3 3 108 18 29 7 78.7 78.7 96 38 4 3 108 18 32 7 77.8 77.8 77.8 77.8 77.7 96 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 108 3 3 14 4 3 14 48 3 14 48 3 14 48 3 156 3 3 36 4 4 4 4 4 4 4 4 4 4 4	48	18	16	8	87.8	87.8	48	30
84 18 26 7 79.9 79.9 39.9 39.9 39.6 18 29 7 78.7 78.7 78.7 10.8 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.6 3 39.4 49.6 49.6 49.9 49.9 49.2 49.2 49.4 49.6 49.2 49.4 49.6 49.4 49.4 49.4 49.4 49.4 <td>60</td> <td>18</td> <td>20</td> <td>7</td> <td>83.9</td> <td>83.9</td> <td>60</td> <td>30</td>	60	18	20	7	83.9	83.9	60	30
96	72	18	23	7	81.5	81.5	72	30
108 18 32 7 77.8 77.8 108 3 120 18 36 7 77.1 77.1 120 3 132 18 36 7 77.1 77.1 132 3 144 18 3 144 18 44 144 3 156 18 3 7 100.0 100.0 100.0 24 44 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 3 148 4	84	18	26	7	79.9	79.9	84	30
120 18 36 7 77.1 77.1 3132 18 132 18 132 132 132 33 144 18 148 132 33 144 33 148 34	96	18	29	7	78.7	78.7	96	30
132 18 132 3 144 18 18 144 3 148 18 156 18 156 18 24 24 13 7 100.0 100.0 156 3 36 24 15 8 80.3 80.3 36.3 36 4 48 24 18 8 71.3 71.3 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.9 66.0 4 48 44 48 44 48 44 </td <td>108</td> <td>18</td> <td>32</td> <td>7</td> <td>77.8</td> <td>77.8</td> <td>108</td> <td>3</td>	108	18	32	7	77.8	77.8	108	3
144 18 148 18 144 3 148 18 156 18 148 148 3 156 18 148 3 156 3 144 3 3 156 3 3 156 3 36 24 15 8 80.3 80.3 36 4 48 24 18 8 71.3 71.3 71.3 48 48 4 4 21 8 66.9 66.9 60.9 60.9 60.9 60.9 60.9 60.9 60.9 60.9 60.9 40.2 72 44 8 64.2 64.2 84.2 44.2 84.4 44.2 44.2 84.4 44.4	120	18	36	7	77.1	77.1	120	3
148 18 1 148 3 156 18 1 156 18 24 24 13 7 100.0 100.0 36 24 15 8 80.3 80.3 48 24 18 8 71.3 71.3 60 24 21 8 66.9 66.9 60 24 21 8 66.9 66.9 60 24 21 8 64.2 64.2 84 24 27 8 62.4 62.4 96 24 30 8 61.0 61.0 108 24 30 8 61.0 61.0 108 24 30 14 7 89.2 89.2 148 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 48 30 19 8 62.3 62.3 40 30 21 8 54.1	132	18					132	3
156 18 24 24 13 7 100.0 100.0 36 24 15 8 80.3 80.3 48 24 18 8 71.3 71.3 60 24 21 8 66.9 66.9 72 24 24 8 64.2 64.2 84 24 27 8 62.4 62.4 96 24 30 8 61.0 61.0 108 24 132 24 132 24 132 4 144 24 144 24 144 24 144 4 148 30 19 8 62.3 62.3 60 30 21 8 54.1 54.1 72 30 21 9 45.0 45.0 84 30 19 8 62.3 62.3 60 30 21 9 45.0 45.0 84 30 19 45.0 45.0 84 30 19 8 62.3 62.3 60 30 21 9 45.0	144	18					144	3
24 24 13 7 100.0 100.0 24 4 36 24 15 8 80.3 80.3 36 4 48 24 18 8 71.3 71.3 48 4 60 24 21 8 66.9 66.9 60 4 72 24 24 8 64.2 64.2 84 4 4 84 24 27 8 62.4 62.4 84 4 4 96 24 30 8 61.0 61.0 96 4 108 24 30 8 61.0 61.0 96 4 120 24 4 4 4 120 4 120 4 120 4 144 4 144 4 144 4 144 4 144 4 144 4 144 4 144 4	148	18					148	30
36 24 15 8 80.3 80.3 36 4 48 24 18 8 71.3 71.3 48 48 60 24 21 8 66.9 66.9 60 4 72 24 24 8 64.2 64.2 72 4 84 24 27 8 62.4 62.4 84 4 96 24 30 8 61.0 61.0 96 4 108 24 4 120 24 120 4 132 24 4 144 24 132 4 148 24 4 144 4 144 4 148 24 4 144 4 148 4 156 24 4 144 4 148 4 156 24 4 144 4 148 4 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 54.1 60 6 72 30 21 9 45.0 45.0<	156	18					156	3
48 24 18 8 71.3 71.3 48 4 60 24 21 8 66.9 66.9 60 4 72 24 24 8 64.2 64.2 84 4 84 24 27 8 62.4 62.4 84 4 96 24 30 8 61.0 61.0 96 4 108 24 30 8 61.0 61.0 96 4 120 24 30 4 108 4 108 4 120 24 30 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 108 4 120 4 132 4 132 4 144 4 144 4 144 4 144 4 144 148	24	24	13	7	100.0	100.0	24	4
60 24 21 8 66.9 66.9 72 24 24 8 64.2 64.2 84 24 27 8 62.4 62.4 96 24 30 8 61.0 61.0 108 24 120 24 108 108 4 132 24 132 132 4 144 144 144 144 144 144 144 144 144 144<	36	24	15	8	80.3	80.3	36	4
72 24 24 8 64.2 64.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.2 84.4 84.2 84.2 84.4 84.2 84.4 84.2 <td>48</td> <td>24</td> <td>18</td> <td>8</td> <td>71.3</td> <td>71.3</td> <td>48</td> <td>4</td>	48	24	18	8	71.3	71.3	48	4
84 24 27 8 62.4 62.4 96 24 30 8 61.0 61.0 108 24 108 108 4 120 24 120 4 120 4 132 24 132 4 144 144 4 144 4 144 144 4 144 144 4 144 144 4 144	60	24	21	8	66.9	66.9	60	4
96 24 30 8 61.0 61.0 96 4 108 24 108 4 108 4 120 24 120 4 120 4 132 24 132 4 144 144 144 144 144 144 144 144 1	72	24	24	8	64.2	64.2	72	4
108 24 108 4 120 24 120 4 132 24 120 4 144 24 144 144 4 148 24 144 144 4 156 24 144 148 4 24 30 14 7 89.2 89.2 24 6 36 30 17 7 73.4 73.4 36 6 4 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 9 45.0 45.0 72 6 6 108 30 120 30 120 6 6 108 6 144 30 144 30 144 6 144 6 144 6 144 6	84	24	27	8	62.4	62.4	84	4
120 24 120 4 132 24 132 4 144 24 132 4 148 24 144 4 156 24 156 4 24 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 36 6 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 19 8 54.1 54.1 60 6 6 72 30 21 9 45.0 45.0 72 6 84 30 108 6 6 6 6 6 108 30 108 6 6 6 6 6 6 6 6 6 6 6 6 <td< td=""><td>96</td><td>24</td><td>30</td><td>8</td><td>61.0</td><td>61.0</td><td>96</td><td>4</td></td<>	96	24	30	8	61.0	61.0	96	4
132 24 132 4 144 24 144 4 148 24 144 4 156 24 156 4 24 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 36 6 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 96 30 84 6 96 6 6 108 30 108 6 6 108 6	108	24					108	4
144 24 144 4 148 24 148 4 156 24 156 4 24 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 36 6 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 96 30 84 6 96 6 6 108 30 120 30 120 6 6 108 6 144 30 144 30 144 6 144 6 144 6 148 30 144 6 144 6 144 6	120	24					120	4
148 24 148 4 156 24 156 4 24 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 36 6 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 84 6 96 6 6 6 6 108 30 108 6	132	24					132	4
156 24	144	24						4
24 30 14 7 89.2 89.2 36 30 17 7 73.4 73.4 48 30 19 8 62.3 62.3 60 30 21 8 54.1 54.1 72 30 21 9 45.0 45.0 84 30 30 84 6 96 30 96 6 96 108 30 120 30 120 6 132 30 120 6 108 6 144 30 144 6 144 6 148 30 148 6	148	24					148	4
36 30 17 7 73.4 73.4 36 6 48 30 19 8 62.3 62.3 48 6 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 84 6 96 6 6 108 30 96 6 6 120 30 120 6 108 6 132 30 120 6 132 6 144 30 144 6 144 6 148 30 148 6	156	24					156	4
48 30 19 8 62.3 62.3 48 66 60 30 21 8 54.1 54.1 60 6 72 30 21 9 45.0 45.0 72 6 84 30 84 6 96 6 6 6 108 30 96 6 6 6 6 6 120 30 120 6 108 6 6 132 30 120 6 132 6 144 6 144 30 144 6 144 6 144 6 148 30 148 6 6 6 6	24	30	14	7	89.2	89.2	24	6
60 30 21 8 54.1 54.1 72 30 21 9 45.0 72 6 84 30 45.0 84 6 96 30 96 6 96 6 108 30 108 6 108 6 132 30 120 6 132 6 144 30 144 6 144 6 148 30 148 6	36	30	17	7	73.4	73.4	36	6
72 30 21 9 45.0 45.0 84 30 84 6 96 30 96 6 108 30 108 108 6 120 30 120 6 120 6 132 30 120 6 132 6 144 30 144 6 144 6 148 30 148 6	48	30	19	8	62.3	62.3	48	6
84 30 96 30 108 30 120 30 132 30 144 30 148 30	60	30	21	8	54.1	54.1	60	6
96 30 108 30 120 30 132 30 144 30 148 30	72	30	21	9	45.0	45.0	72	6
108 30 120 30 132 30 144 30 148 30	84	30					84	6
120 30 132 30 144 30 148 30	96	30					96	6
132 30 144 30 148 30 148 30	108	30				The state of the	108	6
132 30 144 30 148 30 148 30 132 6 144 6 148 6		30					120	6
148 30 148 6	132	30					132	6
DESCRIPTION OF SERVICE	144	30					144	6
156 30 156 6	148	30					148	6
	156	30					156	6

WINDO	OW COMPA	RATIVE AN	ALYSIS CHAR	T FOR 3/16" A	NNEALED
	w Size		RAME	DESIGN LOAD	
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NÈGATIVE
24	36	15	8	80.3	80.3
36	36	20	7	71.3	71.3
48	36	21	8	57.1	57.1
60	36	23	8	50.0	50.0
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36	The second secon			
148	36				
156	36				
24	48	18	8	71.3	71.3
36	48	21	8	57.1	57.1
48	48	26	7	53.5	53.5
60	48				
72	48				
84	48				
96	48	11940-1-1194-1-194			
108	48				
120	48				
132	48				
144	48	Figure 1 to 1 t			
148	48				
156	48				
24	60	21	8	66.9	66.9
36	60	23	8	50.0	50.0
48	60				
60	60				
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144 148	60 60	Tiperio de la califación de la califació			
156	60				



WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" ANNEALED

AVG. ANCHOR

SPACING (IN)

FIN FRAME

QTY OF

ANCHORS

24

Window Size

INCHES

72

72

HEIGH

INCHES

24

36

DESIGN LOAD

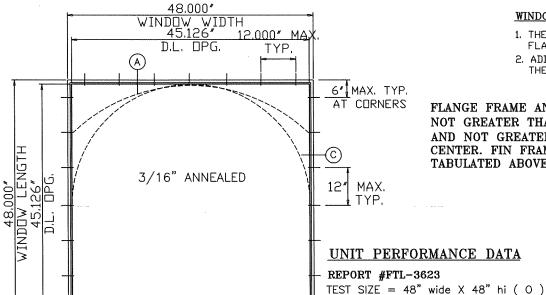
CAPACITY - (PFS)

NEGATIVE

64.2

POSITIVE

64.2



TYPICAL ELEVATION

TESTED UNIT

WINDOW FRAME SIZE NOTE:

- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8' TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

DESIGN LOADS = +53.50, -53.50 PSF (PA-202)

WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619

DAYLIGHT OPENING = $45 \frac{1}{8}$ " wide X $45 \frac{1}{8}$ " hi

STRUCTURAL TEST LOAD = +80.3, -80.3 PSF

TESTED GLASS = 3/16" ANNEALED GLASS

THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225

PRODUCT REVISED as complying with the Florida Building Code 20-0814.08 NOA-No. Expiration Date: 05/08/2023

By: Manuel Peres

Miami-Dade Product Control

F- UPDATED TO CONFORM WITH 2017 FBC

G- UPDATED TO CONFORM WITH 2020 FBC

DATE.



8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

L-4000/6000.01

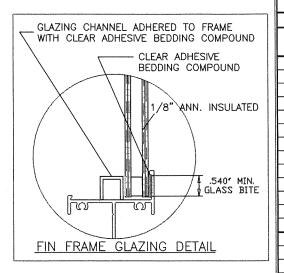
FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES

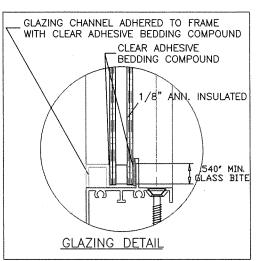
C- ADDED NEW GLASS TYPE (SHEET #12) AND REVISED AS PER 2007 FBC REQUIREMENTS D- UPDATED TO CONFORM WITH 2010 FBC E- UPDATED TO CONFORM WITH 2014 FBC

ate Revised: 11/01/2017 Nelson Erazo 3/16" ANNEALED GLASS 08/10/2020 Nelson Erazo Sheet: 8 of 12

Ref. Number:

AS NOTED





	*					
WINDOW	COMPARA	ATIVE ANALY	SIS CHART F	OR 1/8" ANN.	INSULATED	
Window Size		FIN F	RAME	DESIGN LOAD		
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Ƴ - (PFS)	F
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	
24	18	10	8	100.0	100.0	
36	18	14	7	96.0	96.0	
48	18	17	7	88.6	88.6	
60	18	20	7	84.7	84.7	
72	18	23	7	82.3	82.3	L
84	18	26	7	80.6	80.6	
96	18	29	7	79.4	79.4	
108	18	33	7	78.5	78.5	
120	18	36	7	77.8	77.8	
132	18					ΙL
144	18					
148	18					╽┞
156	18					ΙL
24	24	13	7	100.0	100.0	ΙL
36	24	15	8	81.0	81.0	ΙL
48	24	18	8	72.0	72.0	l L
60	24	19	8	62.7	62.7	l L
72	24	20	9	52.4	52.4	
84	24	21	10	47.8	47.8	ΙL
96	24	23	10	45.5	45.5	ΙL
108	24					ΙL
120	24					
132	24					
144	24					lL
148	24					I L
156	24					lL
24	30	14	7	90.0	90.0	
36	30	17	7	74.1	74.1	
48	30	20	7	62.8	62.8	
60	30	22	8	57.6	57.6	IJL
72	30	21	9	45.2	45.2	J L
84	30					l L
96	30					J [
108	30					
120	30					
132	30					
144	30					
148	30					lΓ
450		Inches in the fall that the first	4			1 T

WINDOW	COMPAR	ATIVE ANAL	YSIS CHART	FOR 1/8" ANN.	INSULATED
Windo	w Size	FIN F	RAME	DESIGN	LOAD
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	15	8	81.0	81.0
36	36	20	7	72.0	72.0
48	36	21	8	57.6	57.6
60	36	24	8	51.4	51.4
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	18	8	72.0	72.0
36	48	21	8	57.6	57.6
48	48	27	7	54.0	54.0
60	48				
72	48				
84	48				
96	48				
108	48				
120	48				
132	48				
144	48				
148	48				
156	48				00.7
24	60	19	8	62.7	62.7 51.4
36	60	24	8	51.4	51.4
48	60				
60	60				
72	60 60				
84					
96	60				
108	60				
120	60			arte e inici Selecie. Republica e inici	
132	60				
144	60				
148	60	Analogi de la			
156	60				

HEIGHT	VVIDITI	QII OI	AVG. ANCHOR		1 - (1 1 0)
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	36	15	8	81.0	81.0
36	36	20	7	72.0	72.0
48	36	21	8	57.6	57.6
60	36	24	8	51.4	51.4
72	36				
84	36				
96	36				
108	36				
120	36				
132	36				
144	36				
148	36				
156	36				
24	48	18	8	72.0	72.0
36	48	21	8	57.6	57.6
48	48	27	7	54.0	54.0
60	48				
72	48				
84	48				
96	48				
108	48				
120	48				
132	48				
144	48	1172-14.11111115.1111.1111.1111.1111.1111.11			
148	48				
156	48				
24	60	19	8	62.7	62.7
36	60	24	8	51.4	51.4
48	60				
60	60				
72	60				
84	60				
96	60				
108	60				
120	60				
132	60				
144	60				
148	60				
156	60				
156	60				

48.0004 WINDOW WIDTH 45.126″ 17 12.000" MAX D.L. OPG. TYP. <u>6″</u> MAX, TYP. AT CORNERS 48.000" WINDOW LENGTH 45.126" D.L. OPG. 1/8" ANN. INSULATED 12" MAX. J TYP. UNIT PERFORMANCE DATA REPORT #FTL-3625 TEST SIZE = 48" wide X 48" hi (0) DESIGN LOADS = +54.00, -54.00 PSF (PA-202) STRUCTURAL TEST LOAD = +81.00, -81.00 PSF WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 DAYLIGHT OPENING = $45 \frac{1}{8}$ " wide X $45 \frac{1}{8}$ " hi TESTED GLASS = 1/8" ANNEALED GLASS

TYPICAL ELEVATION

TESTED UNIT

156

30

WINDOW FRAME SIZE NOTE:

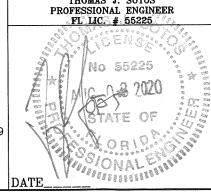
- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

DOUBLE GLAZED INSULATED

THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225

Expiration Date: 05/08/2023 By: Manuel Peres Miami-Dade Product Control Revision Notes: C- ADDED NEW GLASS TYPE (SHEET #12) AND REVISED AS PER 2007 FBC REQUIREMENTS



(INDUSTRIES, INC.)

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANN. INSULATED FIN FRAME

AVG. ANCHOR

SPACING (IN)

10

8

8

8

10

Window Size

WIDTH

INCHES

72

72 72

72

72

72

72

72

72

72

72 72

72

84

84

84

84

84

84

84

84

84

84

84 84

84

26

26

26

26

38.375

38.375

38.375

38.375

50.625

50.625

50.625

50.625

58

58

58

58

63

63

63

63

74.25

74.25

74.25

74.25

QTY OF

ANCHORS

21

11

15

16

20

14

16

21

23

18

19

22

19

21

24

21

20

24

19

HEIGHT

INCHES

24

36

48

60

72 84

96

108

120

132 144

148

156

24

36

48

60

72

84 96

108

120

132

144

148 156

19.125

26.5

37

53.125

19.125

26.5

37

53.125

19.125

26.5

37 53.125

19.125

26.5

37

53.125

19.125

26.5

37

53.125

19.125

26.5

37

53.125

DESIGN LOAD

CAPACITY - (PFS)

NEGATIVE

52.4

47.8

100.0

97.8

76.8

66.0

90.3

74.7

67.6

52.9

83.5

66.2

55.2

81.1

63.3

51.4

79.9

55.0

77.8

45.5

POSITIVE

47.8

100.0

97.8

76.8

66.0

90.3

74.7

67.6

52.9

83.5

66.2

55.2

81.1

63.3

51.4

79.9

55.0

77.8

45.5

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES 1/2" INSULATED ANNEALED GLASS

G- UPDATED TO CONFORM WITH 2020 FBC Date Revised: 11/01/2017 Nelson Erazo Data Drawn Nelson Erazo 08/10/2020 AS NOTED

- UPDATED TO CONFORM WITH 2010 FBC

E- UPDATED TO CONFORM WITH 2014 FBC

F- UPDATED TO CONFORM WITH 2017 FBC

PRODUCT REVISED

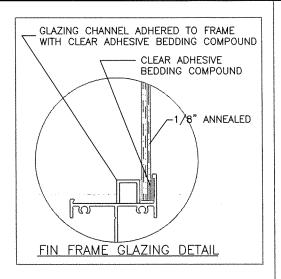
Building Code

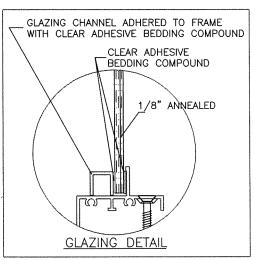
NOA-No.

as complying with the Florida

20-0814.08

Sheet: 9 of 12 Drawing Number: L-4000/6000.01





WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO								
Window Size		FIN FRAME		DESIGN				
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)		F		
INCHES	INCHES	ANCHORS	NCHORS SPACING (IN)		NEGATIVE			
. 24	18	10	8	64.0	64.0			
36	18	13	8	53.3	53.3			
48	18	16	8	49.2	49.2	L		
60	18	20	7	47.1	47.1			
72	18	23	7	45.7	45.7			
84	18	26	7	44.8	44.8			
96	18	29	7	44.1 44.1				
108	18	32	7	43.6	43.6			
120	18	36	7	43.2	43.2			
132	18							
144	18					_		
148	18	100000000000000000000000000000000000000				_		
156	18					_		
24	24	13	7	60.0	60.0	l L		
36	24	15	8	45.0	45.0	_		
48	24	18	8	40.0	40.0	<u> </u>		
60	24	21	8	34.8	34.8	▎┡		
72	24	24	8	29.1	29.1	╽┝		
84	24	27	8	26.6	26.6	<u> </u> _		
96	24	30	8	25.3	25.3	<u> </u> _		
108	24					<u>-</u>		
120	24	Property of the control of the contr				<u>-</u>		
132	24					∤ ├-		
144	24					┨┝		
148	24					┨┝		
156	24			F0.0		-		
24	30	14	7	50.0	50.0	∤ ├		
36 48	30	17	8	41.1 34.9	41.1 34.9	┨┠		
60	30	19	8	34.9	32.0	┨┠╌		
72		21	9	25.1	25.1	┨┝		
	30	21	9	25.1	25.1	┨├		
84	30					┨┝		
96 108	30					┨┞		
	30					┨╟		
120 132	30					1 -		
						┨┠		
144	30			Tantietetetetetäjälehitäilia. Tuulua ja kuun kuulantalai		1 -		
		and the state of t				┨┠		
156	30					JL		

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO									
Windo	w Size	FIN F	RAME	DESIGN LOAD					
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT					
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE				
24	36	15	8	45.0	45.0				
36	36	20	7	40.0	40.0				
48	36	21	8	32.0	32.0				
60	36	23	8	28.6	28.6				
72	36								
84	36			Approximate transfer the first					
96	36								
108	36								
120	36								
132	36			# 1					
144	36								
148	36								
156	36				Straight of Street House Included				
24	48	18	8	40.0	40.0				
36	48	21	8	32.0	32.0				
48	48	26	7	30.0	30.0				
60	48	A Report Loss of Market Street							
72	48	200 6 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
84	48	150 (100 110 160 110 110 110 110 110 110 110							
96	48								
108	48								
120	48								
132	48								
144	48								
148	48								
156	48								
24	60	21	8	34.8 28.6	34.8 28.6				
36	60	23	8	20.0	20.0				
48 60	60 60		anden in in in barren bet Enarmin berbarren						
		\$25 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000							
72 84	60 60	Control of the contro							
		A31212211212212212							
96 108	60								
120	60								
132	60								
144	60		Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
148 156	60				are partia equilibility de l'albigioni di Eu Control de la l'aggle antigent de l'albigioni				
156	bU			#3657111/31548155155517151166	PATRICTURE IN THE POST OF THE PARTY OF THE P				

VVIIIUO		FINERAME		CAPACITY - (PFS)			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR				
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	72	24	8	29.1	29.1		
36	72						
48	72			1 1 1 1 1 1 1 1 1 1			
60	72						
72	72						
84	72						
96	72		Laparent Laboratoria	LT 44 S De billion de rei 12 De billion De billion de la companya de la companya de De billion de la companya del companya de la companya de la companya del companya de la companya del companya de la companya de la companya de la companya del compan			
108	72						
120	72						
132	72						
144	72						
148	72						
156	72						
24	84	27	8	26.6	26.6		
36	84						
48	84						
60	84						
72	84						
84	84						
96	84						
108	84						
120	84						
132	84						
144	84	14-14-15-14-16-14-14-14-14-14-14-14-14-14-14-14-14-14-					
148	84						
156	84						
19.125	26	11	8	59.5	59.5		
26.5	26	15	7	54.4	54.4		
37	26	16	7	42.7	42.7		
53.125	26	20	7	36.7	36.7		
19.125	38.375	14	8	50.1	50.1		
26.5	38.375	16	8	41.5	41.5		
37	38.375	21	7	37.6	37.6		
53.125	38.375	23	7	29.4	29.4		
19.125	50.625	17	8	46.4	46.4		
26.5	50.625	19	8	36.8	36.8		
37	50.625	22	7	30.7	30.7		
53.125	50.625	MUMBER					
19.125	58	19	8	45.1	45.1		
26.5	58	21	8	35.1	35.1		
37	58	24	7	28.6	28.6		
53.125	58	<u> </u>			and human hinde		
		04		44.4	44.4		
19.125	63	21	8	30.5	30.5		
26.5	63	44		30.5	30.5		
37	63						
53.125	63		sugantelalalalalalalalalalalalalalalalalalala	42.0	42.0		
19.125	74.25	24	7	43.2	43.2		
26.5	74.25	23	8	25.3	25.3		
37	74.25						
53.125	74.25						

WINDOW COMPARATIVE ANALYSIS CHART FOR 1/8" ANNEALED MONO

FIN FRAME

Window Size

DESIGN LOAD



- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8' TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

PRODUCT REVISED as complying with the Florida Building Code 20-0814.08 NOA-No. **Expiration Date: 05/08/2023**

F- UPDATED TO CONFORM WITH 2017 FBC

G- UPDATED TO CONFORM WITH 2020 FBC

Nelson Erazo

Nelson Erazo

Date Revised: 11/01/2017

08/10/2020

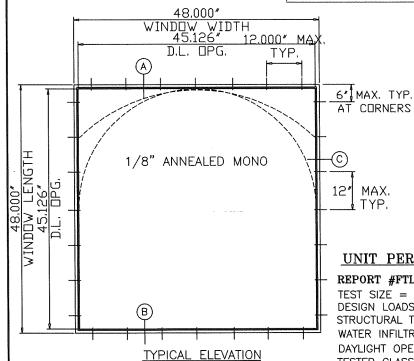
cale:
AS NOTED

Date Drawn

By: Manuel Peres

Miami-Dade Product Control

Revision Notes:



TESTED UNIT

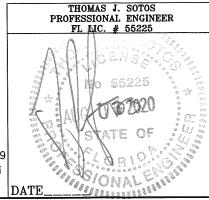
UNIT PERFORMANCE DATA

REPORT #FTL-3624

MAX.

TYP.

TEST SIZE = 48" wide X 48" hi (0) DESIGN LOADS = +30.00, -30.00 PSF (PA-202) STRUCTURAL TEST LOAD = +45.00, -45.00 PSF WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 DAYLIGHT OPENING = $45 \frac{1}{8}$ wide X $45 \frac{1}{8}$ hi TESTED GLASS = 1/8" ANNEALED GLASS



C- ADDED NEW GLASS TYPE (SHEET #12) AND REVISED AS PER 2007 FBC REQUIREMENTS - UPDATED TO CONFORM WITH 2010 FBC (INDUSTRIES, INC.) E- UPDATED TO CONFORM WITH 2014 FBC

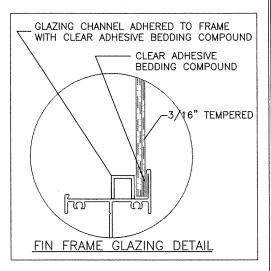
8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

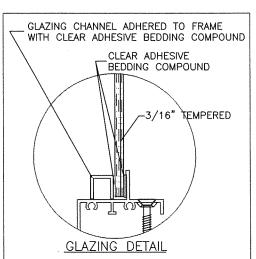
MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

L-4000/6000.01

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES 1/8" ANNEALED GLASS Sheet: 10 of 12 Ref. Number:





WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED							
Windo	w Size	FIN F	RAME	DESIGN LOAD			
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACITY - (PFS)			
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE		
24	18	10	8	100.0	100.0		
36	18	14	7	100.0	100.0		
48	18	19	6	100.0	100.0		
60	18	23	6	100.0	100.0		
72	18	28	6	100.0	100.0		
84	18	32	6	100.0	100.0		
96	18	37	6	100.0	100.0		
108	18	41	6	100.0	100.0		
120	18	46	6	100.0	100.0		
132	18	50	. 6	100.0	100.0		
144	18	55	5	100.0	100.0		
148	18	57	5	100.0	100.0		
156	18	60	5	100.0	100.0		
24	24	13	7	100.0	100.0		
36	24	19	6	100.0	100.0		
48	24	25	25 5 100.0		100.0		
60	24	31	5	100.0	100.0		
72	24	37	5	100.0	100.0		
84	24	43	5	100.0	100.0		
96	24	49	4	100.0	100.0		
108	24	55			100.0		
120	24	61	31 4 100.0		100.0		
132	24	67	4	100.0	100.0		
144	24	73	4	100.0	100.0		
148	24	75	4	100.0	100.0		
156	24	1 40 100 101 20 11 10 27 20 20 20 20 20 20 20 20 20 20 20 20 20		A CONTRACT OF THE PROPERTY OF			
24	30	16	6	100.0	100.0		
36	30	23	5	100.0	100.0		
48	30	31	5	100.0	100.0		
60	30	38	4	100.0	100.0		
72	30	46	4	100.0	100.0		
84	30	54	4	100.0	100.0		
96	30	61	4	100.0	100.0		
108	30	69	4	100.0	100.0		
120	30	76	3	100.0	100.0		
132	30						
144	30						
148	30						

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED									
Windo	w Size	FIN F	RAME	DESIGN LOAD					
HEIGHT	WIDTH	QTY OF	AVG. ANCHOR	CAPACIT					
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE				
24	36	19	6	100.0	100.0				
36	36	28	5	100.0	100.0				
48	36	37	4	100.0	100.0				
60	36	46	4	100.0	100.0				
72	36	55	3	100.0	100.0				
84	36	64	3	100.0	100.0				
96	36	73	3	100.0	100.0				
108	36								
120	36	4 1 1 1 1 2 2 2 3 1 1 2 3 3 3 3 3 3 3 3 3							
132	36								
144	36								
148	36								
156	36								
24	48	25	5	100.0	100.0				
36	48	37	4	100.0	100.0				
48	48	49	3	100.0	100.0				
60	48	61	3	100.0	100.0				
72	48	73	3	100.0	100.0				
84	48								
96	48								
108	48								
120	48								
132	48								
144	48								
148	48				A CONTROL OF THE PROPERTY OF T				
156	48								
24	60	31	5	100.0	100.0				
36	60	46	4	100.0	100.0				
48	60	61	3	100.0	100.0				
60	60	76	3	100.0	100.0				
72	60								
84	60								
96	60								
108	60								
120	60								
132	60								
144	60								
148	60								
156	60			e Territorio de la composición de la c					
***************************************				A	Avenue de la constitución de la				

60.000" WINDOW WIDTH 57.126" 12 D.L. OPG. 12,000" MAX 6" MAX, TYP. AT CORNERS SU.UUU" WINDOW LENGTH 57,126* D.L. DPG. 3/16" TEMPERED MONO 12" MAX. Į TYP. UNIT PERFORMANCE DATA REPORT #FTL-3626 TEST SIZE = 60" wide X 60" hi (0) DESIGN LOADS = +151.00, -151.00 PSF (PA-202) STRUCTURAL TEST LOAD = +226.50, -226.50 PSF WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 DAYLIGHT OPENING = $57 \frac{1}{8}$ " wide X 57 $\frac{1}{8}$ " hi TYPICAL ELEVATION TESTED GLASS = 3/16" TEMPERED GLASS TESTED UNIT

156

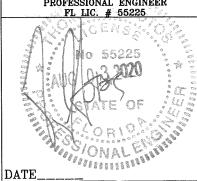
30

WINDOW FRAME SIZE NOTE:

- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8' TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

> THOMAS J. SOTOS PROFESSIONAL ENGINEER



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

By: Manuel Peres

Miami-Dade Product Control

D- UPDATED TO CONFORM WITH 2010 FBC

E- UPDATED TO CONFORM WITH 2014 FBC

F- UPDATED TO CONFORM WITH 2017 FBC

C- ADDED NEW GLASS TYPE (SHEET #12) AND REVISED AS PER 2007 FBC REQUIREMENTS (INDUSTRIES, INC.

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

WINDOW COMPARATIVE ANALYSIS CHART FOR 3/16" TEMPERED

AVG. ANCHOR

SPACING (IN)

3

5

3

6

5

5

5

4

6

5

4

6

5

3

6

3

6

4

3

FIN FRAME

QTY OF

ANCHORS

55

73

43

64

11

15

21

30

16

22

30

43

21

29

40

57

24

33

46

65

26

36

50

71

30

42

58

Window Size

WIDTH

INCHES

72

72

72

72

72

72

72

72 72

72

72

72

72

84

84

84

84

84

84

84

84

84

84

84

84

84

26

26

26

26

38.375

38.375

38.375

38.375

50.625 50.625

50.625

50.625

58

58

58

58

63

63

63

63

74.25

74.25

74.25

74.25

HEIGHT

24

36

48

60

72

84 96

108

120

132

144

148

156

24

36

48

60

72

84

96

108

120

132

144

148

156

19.125

26.5

37

53.125

19.125

26.5

37

53.125

19.125

26.5 37

53.125

19.125

26.5

37

53.125

19.125

26.5

37

53.125

19.125

26.5

37

53.125

DESIGN LOAD

CAPACITY - (PFS)

POSITIVE

100.0

100.0 100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

NEGATIVE

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

L-4000/6000.01

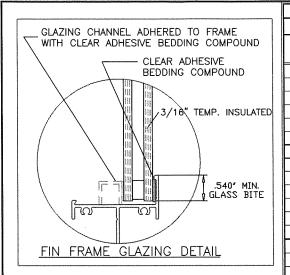
FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES

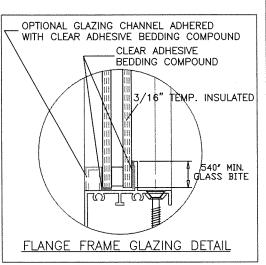
G- UPDATED TO CONFORM WITH 2020 FBC Date Revised: 11/01/2017 Nelson Erazo Date Drawn Nelson Erazo 08/10/2020 Ref. Number: AS NOTED

3/16" TEMPERED GLASS Sheet: 11 of 12

20-0814.08 Expiration Date: 05/08/2023

Revision Notes:





WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED			WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED								
		FINF	RAME	DESIGN LOAD				FIN FRAME		DESIGN LOAD	
WDTH	HEIGHT	QTY OF	AVG. ANCHOR	CAPACIT	Y - (PFS)	WIDTH	HEIGHT	QTY OF	AVG. ANCHOR	CAPACIT	
INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE	INCHES	INCHES	ANCHORS	SPACING (IN)	POSITIVE	NEGATIVE
24	18	10	8	100.0	100.0	24	36	19	6	100.0	100.0
36	18	14	7	100.0	100.0	36	36	28	5	100.0	100.0
48	18	19	6	100.0	100.0	48	36	37	4	100.0	100.0
60	18	23	6	100.0	100.0	60	36	46	4	100.0	100.0
72	18	28	6	100.0	100.0	72	36	55	3	100.0	100.0
84	18	32	6	100.0	100.0	84	36	64	3	100.0	100.0
96	18	37	6	100.0	100.0	96	36	73	3	100.0	100.0
108	18	41	6	100.0	100.0	108	36	82	3	100.0	100.0
120	18	46	6	100.0	100.0	120	36	91	3	100.0	100.0
132	18	50	6	100.0	100.0	132	36	100	3	100.0	100.0
144	18	55	5	100.0	100.0	144	36	110	3	100.0	100.0
148	18	57	5	100.0	100.0	148	36	113	3	100.0	100.0
156	18	60	. 5	100.0	100.0	156	36	119	3	100.0	100.0
24	24	13	7	100.0	100.0	24	48	25	5	100.0	100.0
36	24	19	6	100.0	100.0	36	48	37	4	100.0	100.0
48	24	25	5	100.0	100.0	48	48	49	3	100.0	100.0
60	24	31	5	100.0	100.0	60	48	61	3	100.0	100.0
72	24	37	5	100.0	100.0	72	48	73	3	100.0	100.0
84	24	43	5	100.0	100.0	84	48	85	3	100.0	100.0
96	24	49	4	100.0	100.0	96	48	97	2	100.0	100.0
108	24	55	4	100.0	100.0	108	48	110	2	100.0	100.0
120	24	61	4	100.0	100.0	120	48	120	2	98.4	98.4
132	24	67	4	100.0	100.0	132	48	129	2	96.3	96.3
144	24	73	4	100.0	100.0	144	48	138	2	94.5	94.5
148	24	75	4	100.0	100.0	148	48	141	2	94.0	94.0
156	24	79	4	100.0	100.0	156	48				
24	30	16	6	100.0	100.0	24	60	31	5	100.0	100.0
36	30	23	5	100.0	100.0	36	60	46	4	100.0	100.0
48	30	31	5	100.0	100.0	48	60	61	3	100.0	100.0
60	30	38	4	100.0	100.0	60	60	76	3	100.0	100.0
72	30	46	4	100.0	100.0	72	60	91	2	100.0	100.0
84	30	54	4	100.0	100.0	84	60	104	2	98.0	98.0
96	30	61	4	100.0	100.0	96	60	112	2	91.6	91.6
108	30	69	4	100.0	100.0	108	60	119	2	87.2	87.2
120	30	76	3	100.0	100.0	120	60				
132	30	84	3	100.0	100.0	132	60				- 1
144	30	91	3	100.0	100.0	144	60				
148	30	94	. 3	100.0	100.0	148	60				
156	30	99	3	100.0	100.0	156	60				

INCHES INCHES 24 72 36 72 48 72 60 72 72 72 84 72 96 72 108 72 120 72 132 72 72 144 148 72 156 72 24 84 36 84 48 84 60 84 72 84 84 84 96 84 108 84 120 84 132 84 144 84 148 84 156 84 26 19.125 26.5 26 37 26 53.125 26 19.125 38.375 26.5 38.375 37 38.375 53.125 38.375 19.125 50.625 26.5 50.625 37 50.625 53.125 50.625 19.125 58 26.5 58 37 58 58 53.125 19.125 63 26.5 63 37 63 63 53.125

WIDTH

HEIGHT

WINDOW WIDTH 81.126" D.L. OPG. 6" MAX. TYP. AT CORNERS 84,000" WINDOW LENGTH 81,126" D.L. OPG. 3/16" TEMP. INSULATED 12" MAX. TYPICAL ELEVATION TESTED UNIT UNIT PERFORMANCE DATA REPORT #HETI # 09-2604 TEST SIZE = 84" wide X 84" hi (0) DESIGN LOADS = +90.00, -90.00 PSF (PA-202) STRUCTURAL TEST LOAD = +135.00, -135.00 PSF WATER INFILTRATION TEST = 18.0 PSF @ #FTL-3619 DAYLIGHT OPENING = $81 \frac{1}{8}$ wide X $81 \frac{1}{8}$ hi TESTED GLASS = 3/16" TEMPERED GLASS TYPICAL ELEVATION

TESTED UNIT

J TYP.

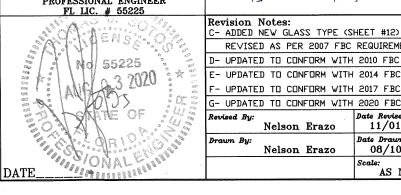
WINDOW FRAME SIZE NOTE:

- 1. THE WINDOW SIZE SHOWN ON CHARTS ARE FOR THE FLANGE WINDOW EXTERIOR OVERALL DIMENSION.
- 2. ADD 1 1/8" TO THE FLANGE WINDOW SIZE TO DETERMINE THE FIN WINDOW EXTERIOR OVERALL DIMENSION.

FLANGE FRAME ANCHORS ARE TO BE SPACED NOT GREATER THAN 6" FROM EACH CORNER, AND NOT GREATER THAN 12" CENTER TO CENTER. FIN FRAME ANCHORS SPACED AS TABULATED ABOVE.

DOUBLE GLAZED INSULATED

THOMAS J. SOTOS PROFESSIONAL ENGINEER FL LIC. # 55225



PRODUCT REVISED as complying with the Florida Building Code 20-0814.08 NOA-No.

Expiration Date: 05/08/2023

Miami-Dade Product Control

- ADDED NEW GLASS TYPE (SHEET #12) AND

REVISED AS PER 2007 FBC REQUIREMENTS

(INDUSTRIES, INC.

74.25

74.25

74.25

74.25

19.125

26.5

37

53.125

8501 NW 90th St. MEDLEY, FLORIDA 33166 (305) 696-8660

MANUFACTURER OF QUALITY ALUMINUM WINDOWS AND GLASS DOORS

WINDOW COMPARATIVE ANALYSIS CHART FOR 5/8" INSULATED TEMPERED

AVG. ANCHOR

SPACING (IN)

3

DESIGN LOAD

CAPACITY - (PFS)

NEGATIVE

100.0

100.0

100.0

100.0

100.0

91.9

84.0

100.0

100.0

100.0 98.0

91.9

90.0

100.0

100.0

100.0 100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

12 of 12

POSITIVE

100.0

100.0

100.0

100.0

100.0

91.9

84.0

100.0

100.0

100.0

98.0 91.9

90.0

100.0

100.0

100.0

100.0

100.0

100.0 100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

100.0

FIN FRAME

QTY OF

ANCHORS

37

55

73

91

110

117

123

85

104

117

134

11

15

21

30

16

22

30

43

21

29

40

57

24

33

46

65

26

36

50

71

30

42

58

84

6

4

3

6

4

3

SERIES: 4000 / 6000 ALUMINUM FIXED WINDOWS

L-4000/6000.01

5/8" INSULATED TEMPERED GLASS

G- UPDATED TO CONFORM WITH 2020 FBC Date Revised 11/01/2017 Nelson Erazo Nelson Erazo 08/10/2020 Ref. Number: AS NOTED

FIN/FLANGE FRAME WINDOW COMPARATIVE ANALYSIS & NOTES Drawing Number:

By: Manuel Peres