

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

BOARD AND CODE ADMINISTRATION DIVISION

# NOTICE OF ACCEPTANCE (NOA)

PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, FL 33175 T (786) 315–2590 F (786) 315–2599 www.miamidade.gov/economy

MIAMI-DADE COUNTY, FLORIDA

Tecnoglass, LLC 3550 NW 49<sup>th</sup> Street Miami, FL 33142

### 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 "600Y–CA" Aluminum Single Hung Window – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **W04–88**, titled "Series 600Y–CA Aluminum Single Hung Window (L.M.I.)", sheets 1 through 7 of 7, dated 10/15/04, with revision "**G**" dated 11/20/20, prepared by Al–Farooq Corporation, signed and sealed by Jalal Farooq, P. E., bearing the Miami–Dade County Product Control Section 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, **Barranquilla**, **Columbia** and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**REVISION** 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 and renews NOA No. 16-1013.07** 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 Sifang Zhao, P. E.





04/01/2021

NOA No. 20-1216.01 Expiration Date: March 30, 2027 Approval Date: April 01, 2021 Page 1

# **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

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

#### A. DRAWINGS

- **1.** Manufacturer's die drawings and sections.
- 2. Drawing No W04-88, titled "Series 600Y–CA Aluminum Single Hung Window (L.M.I.)", sheets 1 through 7 of 7, dated 10/15/04 with revision "F" dated 03/16/17, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, P. E. (*Submitted under NOA–No. 16–1013.07*)

### 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 Resistant Test, per FBC, TAS 202–94

along with marked-up drawings and installation diagram the series 600Y aluminum single hung windows mulled together over aluminum fixed windows and series 600Y single hung window, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-003** dated 02/23/17, signed and sealed by Constantin Bortes, P. E. (*Submitted under NOA-No. 16-1013.07*)

2. Test reports on: 1) Large Missile Impact Test, per FBC, TAS 202–94

2) Cyclic Wind Pressure Loading, per FBC, TAS 203–94 along with marked-up drawings and installation diagram of the series 500Y aluminum

single hung windows mulled together over aluminum fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–4013**, dated 12/05/03, signed and sealed by Edmundo J. Largaespada, P.E.

## (Submitted under previous NOA No. 07-0522.09)

- **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) Small 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, and TAS 202–94

along with marked-up drawings and installation diagram of the series 500Y aluminum single hung windows mulled together over aluminum fixed windows, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4032**, dated 12/05/03, signed and sealed by Edmundo J. Largaespada, P.E.

(Submitted under previous NOA No. 07–0522.09)

Sifang Zhao, P. E. Product Control Examiner NOA No. 20-1216.01 Expiration Date: March 30, 2027 Approval Date: April 01, 2021

# NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## C. CALCULATIONS (Submitted under NOA-No. 16–1013.07)

- 1. Anchor verification calculations and structural analysis, complying with **FBC–2014**, dated 03/13/17 and revised on 03/22/17, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, 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. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas®** (**Clear and White**) **Interlayer**" dated 06/25/15, expiring on 07/04/18.

## F. STATEMENTS (Submitted under NOA–No. 16–1013.07)

- 1. Statement letter of no financial interest, independence, conformance and complying with **FBC–2014**, issued by Al–Farooq Corporation, dated 03/13/17, signed and sealed by Javad Ahmad, P. E.
- 2. Distribution agreement dated 02/07/17 between Tecnoglass, Inc. and Energia Solar SA, Colombia, signed by Evelyn Daes (Gen MGR) and Carlos Garcia (Sales MGR), respectively on behalf of their companies.
- **3.** Sales agreement between Tecnoglass, LLC (Acquirer) and RC Aluminum Industries, Inc. (Asset Seller) dated 06/19/14, signed by Raul Casares, President (RC Aluminum Industries, Inc.
- **4.** Statement letter dated July 15, 2014, issued by RC Aluminum Industries, Inc., stating RC Aluminum Industries, Inc. has legally sold to Tecnoglass, LLC, all the NOA(s) per schedule 1 and gave-up all rights to NOA(s) and request to rescind all NOA(s) under RC Aluminum Industries, Inc. signed by Raul Casares, President (RC Aluminum).
- 5. Laboratory compliance letters for Test Reports No.'s FTL-4032 and FTL-4013, both dated 12/05/03, both issued by Fenestration Testing Laboratory, Inc., both signed and sealed by Edmundo J. Largaespada, P.E.

(Submitted under previous NOA No. 07–0522.09)

- 6. Proposal issued by Product Control, dated 09/25/03, signed by Jaime D. Gascon, P.E. (*Submitted under previous NOA No. 07–0522.09*)
- 7. Proposal issued by Product Control, dated 01/11/17, signed by Jorge M. Plasencia, P.E.

# G. OTHERS

1. None.

Sifang Zhao, P. E. Product Control Examiner NOA No. 20-1216.01 Expiration Date: March 30, 2027 Approval Date: April 01, 2021

# **NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

## 2. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. **W04–88**, titled "Series 600Y–CA Aluminum Single Hung Window (L.M.I.)", sheets 1 through 7 of 7, dated 10/15/04, with revision "G" dated 11/20/20, prepared by Al–Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

#### B. TESTS

1. None.

### C. CALCULATIONS

1. Anchor verification calculations complying with FBC 6<sup>th</sup> Edition (2017) and FBC 7<sup>th</sup> Edition (2020), dated 12/01/2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

#### **D. QUALITY ASSURANCE**

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

#### E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 20-0915.19 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Interlayer" dated 11/19/20, expiring on 07/04/23.

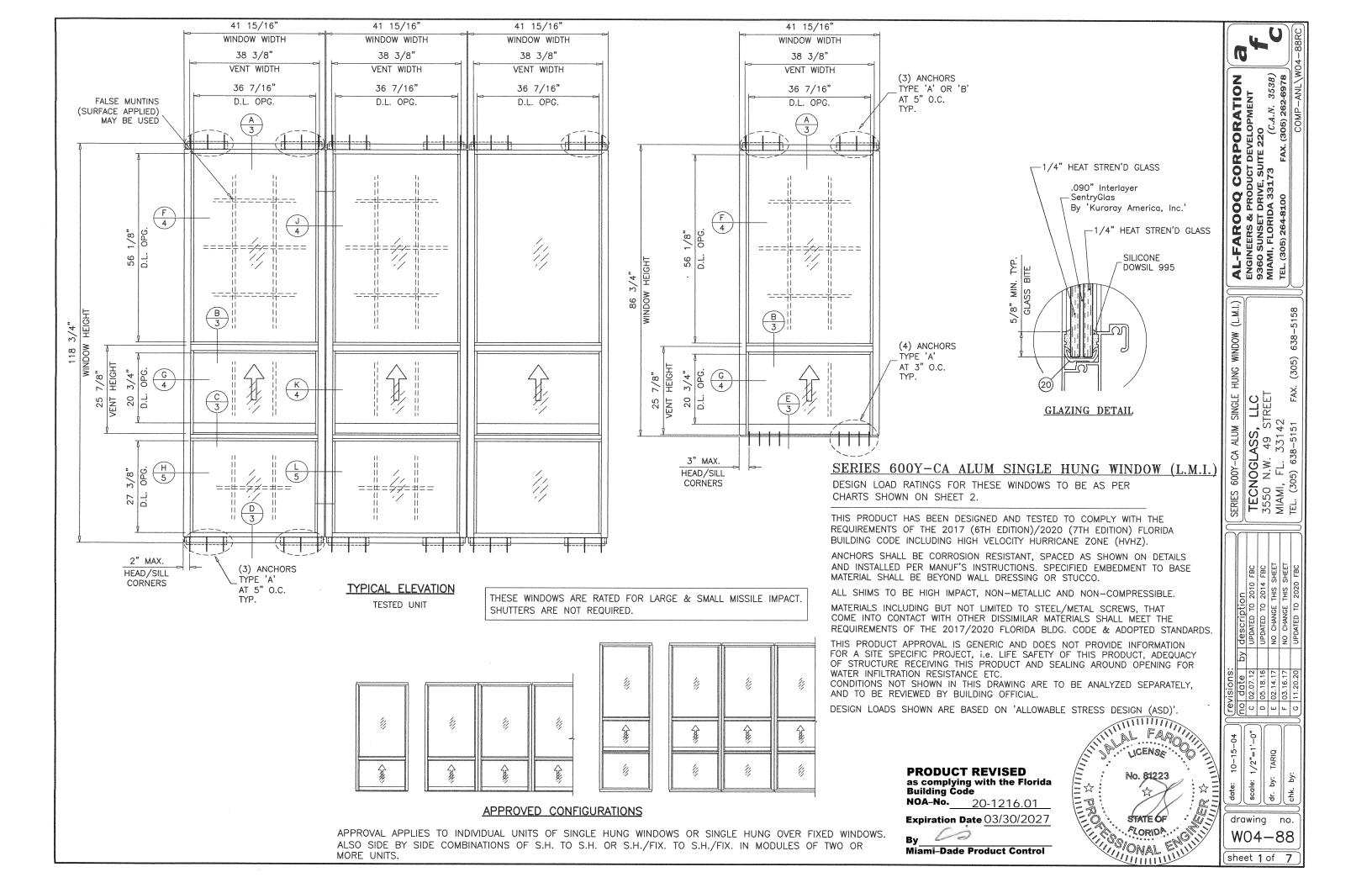
#### F. STATEMENTS

1. Statement letter of conformance, complying with **FBC** 7<sup>th</sup> **Edition** (2020), and of no financial interest, dated December 01, 2020, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

### G. OTHERS

1. Notice of Acceptance No. **16-1013.07**, issued to Tecnoglass, LLC for their Series "600Y-CA" Aluminum Single Hung Window - L.M.I., approved on 03/24/17 and expiring on 03/30/22.

Sifang Zhao, P. E. Product Control Examiner NOA No. 20-1216.01 Expiration Date: March 30, 2027 Approval Date: April 01, 2021



SI	NGLE HUN	G WINDOWS	5	]
DESIC	N LOAD C	APACITY -	PSF	]
WINDOW	V DIMS.	LAMINATI	ED GLASS	]
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	]
24"		100.0	120.0	]
30"		100.0	120.0	
36"		100.0	120.0	]
42"	54"	100.0	120.0	]
48"		69.2	83.1	]
54"		47.2	56.7	
60"		33.7	40.5	]
24"		100.0	120.0	
30"		100.0	120.0	
36"		100.0	120.0	
42"	60"	100.0	120.0	
48"		64.9	77.9	
54"		43.9	52.7	
60"		31.2	37.4	
24"		100.0	120.0	
30"		100.0	120.0	
36"	66"	100.0	120.0	T
42"	00	100.0	120.0	
48"		62.4	74.8	
54"		41.7	50.0	
24"		100.0	120.0	
30"		100.0	120.0	HEIGHT
36"	72"	100.0	120.0	
42"		100.0	120.0	
48"		61.2	73.4	
24"		100.0	120.0	
30"	78"	100.0	120.0	
36"		100.0	120.0	
42"		100.0	120.0	
24"		100.0	120.0	U
30"	84"	100.0	120.0	S
36"	- '	100.0	120.0	
42"		100.0	120.0	l
24"		100.0	120.0	
30"	86-3/4"	100.0	120.0	
36"	·	100.0	120.0	
42"		100.0	120.0	

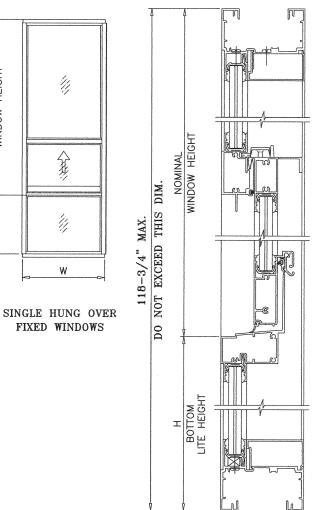
1		٦,
HEIGHT	56 1/8" MAX. D.L. OPG.	25 7/8" MAX. VENT HEIGHT
	<u> </u>	
	WIDTH	

NOMINAL WINDOW HEIGHT

I

UNEQUAL LITES (ORIEL) SINGLE HUNG WINDOWS

WINDO	W DIMS.	LAMINAT	LAMINATED GLASS		
WIDTH	HEIGHT	EXT.(+)	1NT.(-)		
42"		99.0	119.4		
48"	36"	62.7	75.2		
54"		42.2	50.7		



	ULLION CAP		DAD - PSF	W
	MULL SPAN	EXT.(+)	1NT.(-)	WIDTH
24"	MOLL SI AN	100.0	120.0	24
30"		100.0	120.0	30
36"		100.0	120.0	36
42"	72"	100.0	120.0	42
48"		100.0	120.0	24
54"		100.0	120.0	30
60"		100.0	120.0	36
24"		100.0	120.0	42
30"		100.0	120.0	<b>L</b> ease sector
36"		100.0	120.0	
42"	78"	100.0	120.0	
48"	[	100.0	120.0	
54"		100.0	120.0	
60"		100.0	120.0	
24"		100.0	120.0	
30"		100.0	120.0	
36"		100.0	120.0	
42"	84"	100.0	120.0	
48"		100.0	120.0	
54"		100.0	120.0	
60"		100.0	120.0	
24"		100.0	120.0	
30" 70"		100.0	120.0	
36"	90"	100.0	120.0	
42"		100.0	120.0	
48" 54"		100.0	120.0	
54 24"		100.0	120.0 120.0	
24 30"		100.0	120.0	
36"		100.0	120.0	
42"	96"	100.0	120.0	
48"		100.0	120.0	
54"		100.0	120.0	
24"		100.0	120.0	
30"	ŀ	100.0	120.0	
36"	102"	100.0	120.0	
42"		100.0	120.0	
48"	-	100.0	120.0	
24"		100.0	120.0	
30"		100.0	120.0	
36"	108"	100.0	120.0	
42"		100.0	120.0	
48"		100.0	120.0	

SINGLE HUNG WINDOW CAPACITY.

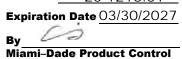
REFER TO CHART ABOVE TO OBTAIN CAPACITY OF BOTTOM LITE OF WINDOWALL.

REFER TO CHARTS AT RIGHT OF THIS PAGE TO OBTAIN MULLION CAPACITY.

REFER TO CHARTS AT LEFT OF THIS PAGE TO OBTAIN

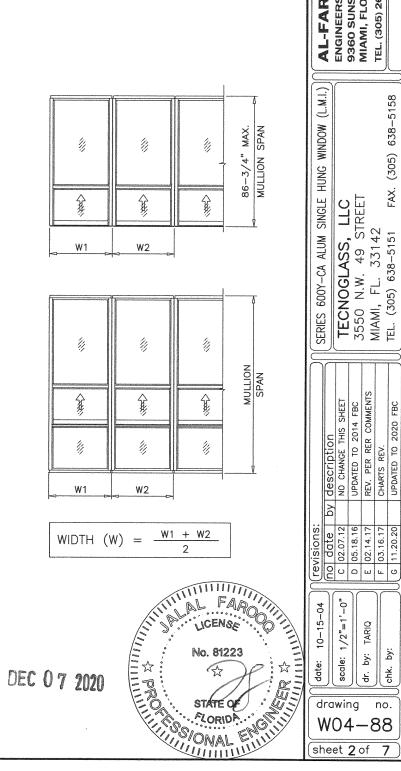
USE LOWEST VALUES OF OPTIONS CONSULTED.

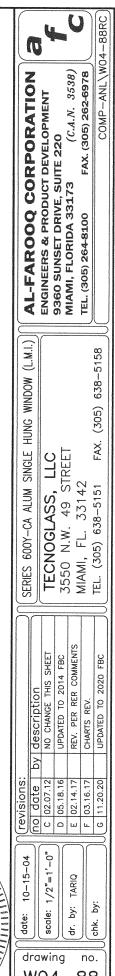
**PRODUCT REVISED** as complying with the Florida Building Code NOA-No. 20-1216.01



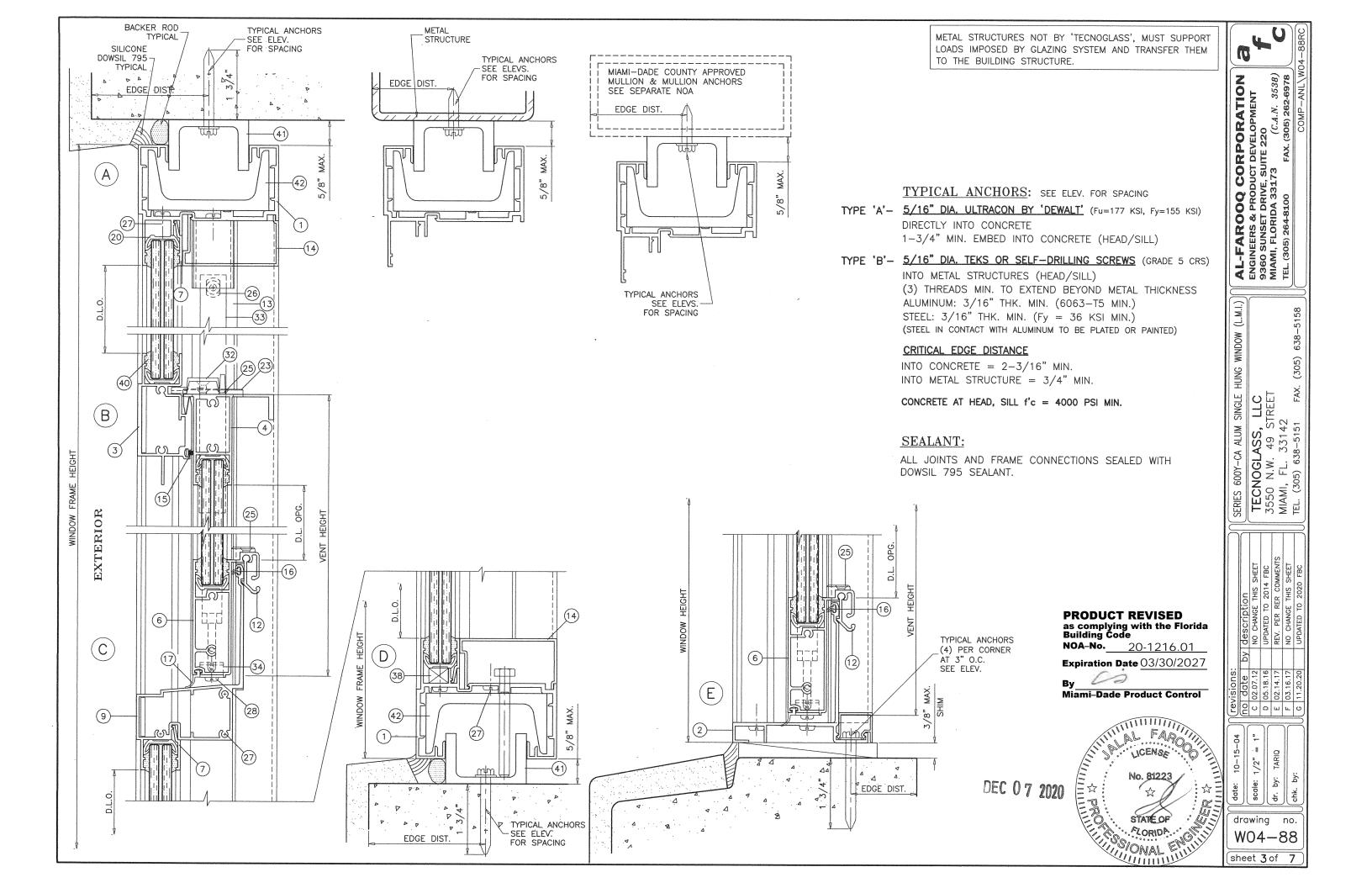
NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

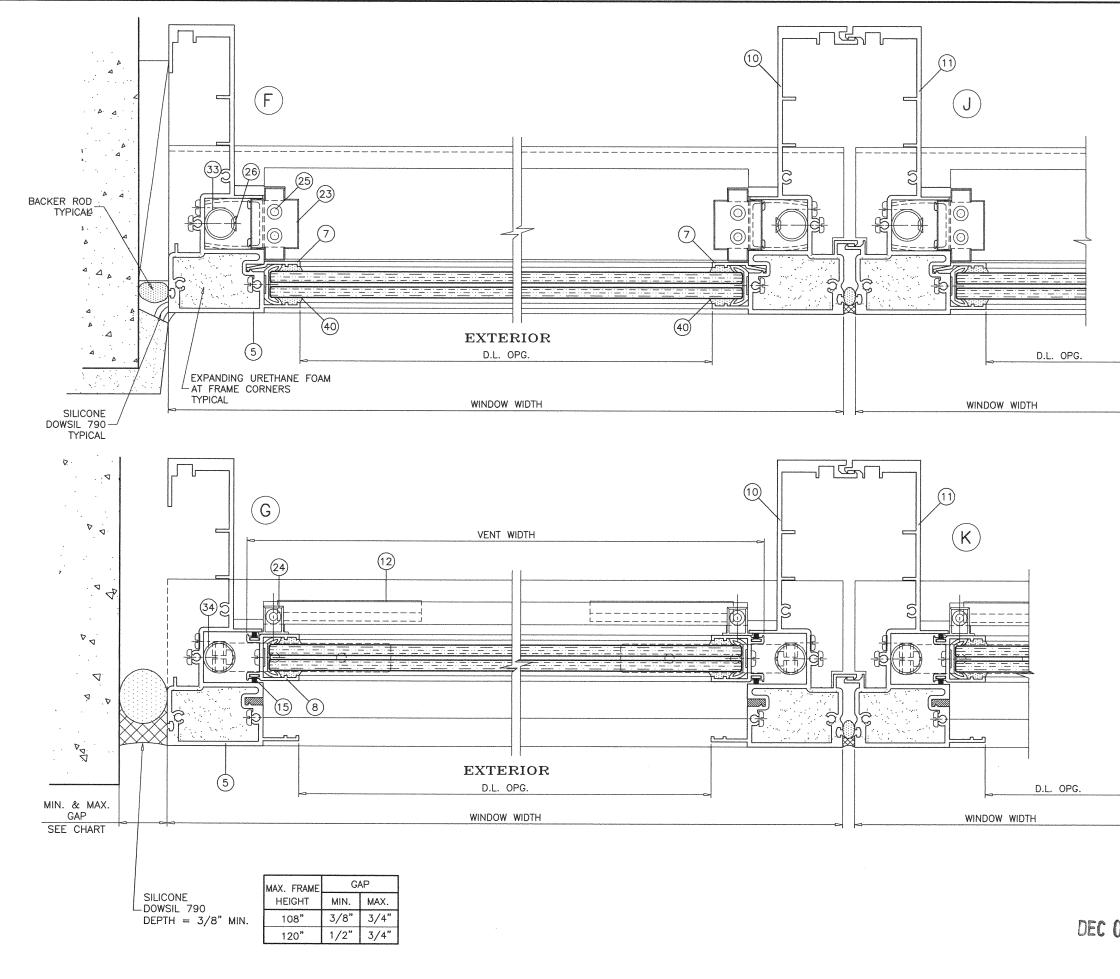
DOI	W DIMS.	DESIGN LOAD - PSF		
W)	MULL SPAN	EXT.(+)	1NT.(-)	
		100.0	120.0	
	114"	100.0	120.0	
		100.0	120.0	
		100.0	120.0	
		100.0	120.0	
		100.0	120.0	
		100.0	120.0	
		100.0	117.1	

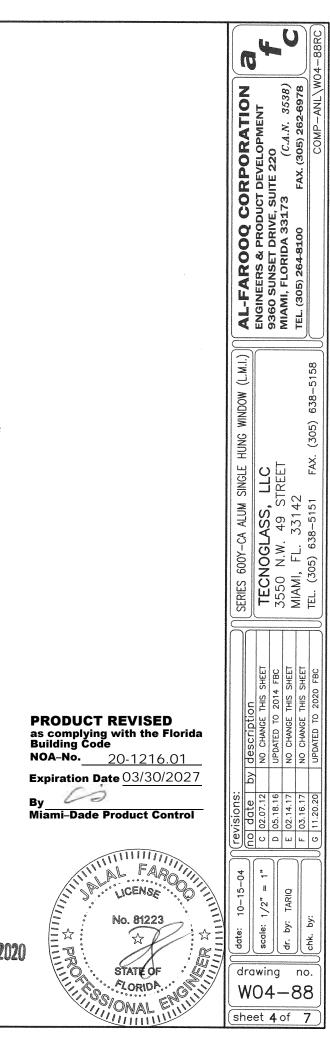




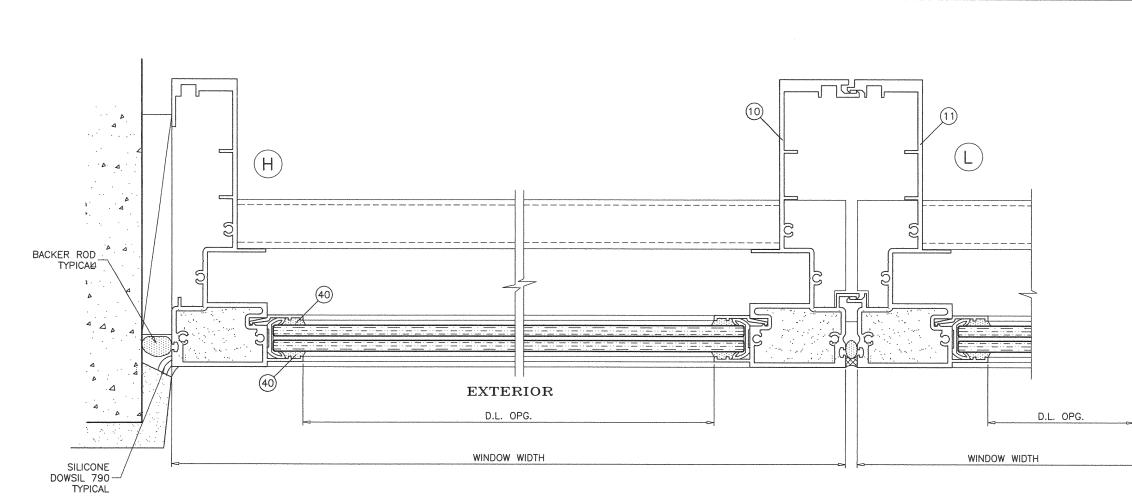
sheet 2 of 7

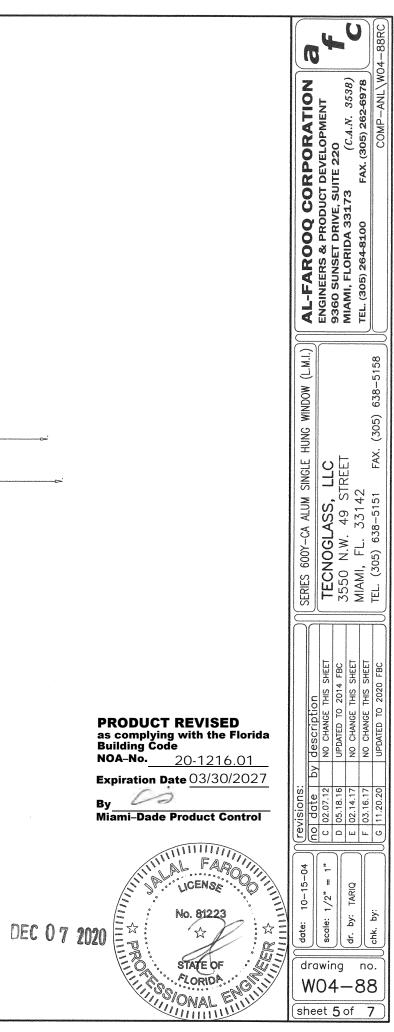






DEC 07 2020





	MANF./SUPPLIER/REMARKS	MATERIAL	DESCRIPTION	REQD.	PART #	ITEM #
	AT FRAME	6063-T6	HEAD & FIXED SILL	AS REQD.	500Y-017	1
	AT FRAME		FRAME SILL	AS REQD.	500Y-002	2
<b>RPORATION</b> DEVELOPMENT ITE 220 (C.A.N. 3538)	AT FRAME	6005-T5	MEETING RAIL	1	500Y-003	3
	SASH VENT	6005-T5	VENT TOP	1	500Y-028	4
PM A.A.	AT FRAME	6063-T6	JAMB	2	500Y-019	5
	SASH VENT	6063-T6	VENT BOTTOM	1	500Y-006	6
DEVE	AT FIXED GLASS	6063-T6	GLAZING BEAD	AS REQD.	500Y-007	7
AL-FAROOQ CORPORATIO ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 35	SASH VENT	6063-T6	VENT SIDE	2	500Y-008	8
	AT FRAME	6005-T5	SILL MEETING RAIL	AS REQD.	500Y-009	9
	_	6063-T6	MALE MULLION	AS REQD.	500Y-015	10
ROOQ RS & PRC VSET DRI ORIDA 3	_	6063-T6	FEMALE MULLION	AS REQD.	500Y-016	11
SEI S S	SASH VENT	6063-T6	HANDICAP FINGER LOCK	2/VENT	500Y-012	12
ALCER AL	AT TOP OF FRAME	6063-T6	VENT STOP	1	500Y-013	13
-FA INEEI SO SUR MI, FL		6063-T6	FRAME COVER	AS REQD.	550Y-018	14
<b>AL</b> ENG 936 MIA	AT VENT SIDE MEETING RAIL		WEATHERSTRIPPING PILE	AS REQD.	W33261NK	15
	SILL & SILL MEETING RAIL	VINYL	WEATHERSTIPPING GASKET	AS REQD.	WV-3189	16
	BOTTOM OF SASH VENT	NEOPRENE	WEATHERSTRIPPING GASKET	AS REQD.	V-048	17
(L.M.I.)	7/16" AND 9/16" AT BOTH LITES	VINYL	MARINE GLAZED GASKET (DUROMETER 45-55)	AS REQD.	V-051	20
	TOP OF SASH VENT	NYLON	VENT TOP GUIDE PLASTIC M&M		P-012	23
HUNG WINDOW	BOTTOM OF SASH VENT	NYLON	VENT BOTTOM GUIDE PLASTIC M&M	· · · · · · · · · · · · · · · · · · ·	P-013	24
M	AT P-012, P-013 & PD-203		#8 X 3/8" LG. FH. SMS. ST/ST PHILLIPS	AS REQD.		25
NNC	AT TOP OF BALANCE		#8 X 1" LG. FH. SMS. ST/ST PHILLIPS	2	-	26
	ASSEMBLY SCREWS		#10 X 1" LG. PH. SMS. ST/ST PHILLIPS	AS REQD.		27
SINGLE LLC TREET	AT BALANCE CLIP		#10 X 3/4" LC. PH. SMS. ST/ST PHILLIPS	6		28
	AT TOP OF SASH		SASH LOCK	2/ WDW	PD-203	32
RIES 600Y-CA ALUM S FECNOGLASS, 1 550 N.W. 49 ST 40MI EI 33140	AT FRAME		ULTRA-LIFT BALANCE #30		_	33
A P C			ULTRA-LIFT NON TILT BRACKET		_	34
600Y-CA N.W. A N.W.	DUROMETER 80±5 SHORE A	EPDM	3/8" X 1/2" X 4" LG. SETTING BLOCKS		_	38
RIES 600Y ECNOC 550 N.V	-	SILICONE	GLAZING COMPOUND		DOWSIL 995	
SERIES TECN 3550 MIAMI	9 IN. & 12" LONG	6063-T6	ANCHOR CHANNEL			41
TE 35:	9 IN. LONG	6063-T6	REINFORCING CHANNEL	AS REQD.	500Y-020	42
by description NO CHANGE THIS SHEET UPDATED TO 2014 FBC NO CHANGE THIS SHEET	PRODUCT REVISED as complying with the Florida Building Code NOA-No. <u>20-1216.01</u>	a I I				
revisions: no date c 02.07.12 D 05.18.16 E 02.14.17	Expiration Date <u>03/30/2027</u> By					
	Aiami-Dade Product Control	r				
date: 10-15-04 scale: 1/2" = 1" dr. by: TARIQ	No. 81223	2020	DEC 07			
drawing WO4-8	C STATE OF					

