

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

E.S. Windows, LLC 3550 N. W. 49th 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 "6500" Aluminum Sliding Glass Doors w/ reinforcements-LMI

APPROVAL DOCUMENT: Drawing No. **W13-07 Rev F**, titled "Series 6500 Alum Sliding Glass Door (LMI)", sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on NOV 17, 2020, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large Missile Impact Resistant

Limitations:

- 1. See SGD w/wo Head Receptor (HR) Design Pressures (DP) Vs. Reinforcements & glazing options in sheet 4.
- 2. See sheet $\underline{2}$ for SGD elevation without HR and anchors capacity charts in sheet $\underline{5}$ at Head & sheet $\underline{6}$ at sill.
- See sheet <u>3</u> for SGD elevation w/ HR doors and Head/sill anchors capacity charts in sheet <u>6</u> at sill. Standard jambs item # E-3 is limited to max DP=+/- 85 PSF only. The max Exterior Positive DP not to exceed=+120.0 PSF, all the cases. Heavy Duty (#E-4) may be used per all tables & free jambs.
- 4. See sheets 7, 9 & 11, for fixed panel arrangement using alum clip item E-29 (top/bottom) & threshold item E-11.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, BARRANQUILLA,

COLOMBIA and series and following statement: "Miami-Dade County Product Control Approved", 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.

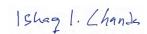
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 #18-0322.05 of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

MIAMI-DADE COUNTY APPROVED



NOA No. 20-1118.09 Expiration Date: September 19, 2023 Approval Date: February 18, 2021 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS

- 1. Manufacturer's die drawings and sections (submitted under file referenced below)
- 2. Drawing No. **W13-07 Rev C**, titled "Series 6500 Alum Sliding Glass Door (LMI)", sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on SEP 08, 2016, signed and sealed by Javad Ahmad, P.E.
- **B. TESTS** (submitted under file #13-0115.05)
 - 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OXXO aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Test Report No. **FTL-7130 (FTL 12093)**, dated 04/05/13 and last revised on 09-12-13, signed and sealed by Marlin D. Brinson, P.E.

Along with marked-up drawings and installation diagram of OXXX aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. **FTL-6990(FTL12051)**, dated 08/06/12, signed and sealed by Marlin D. Brinson, P.E.

3. Additional reference test report #BT-ESW-15-005.

C. CALCULATIONS

- Anchor verification calculations and structural analysis, complying with FBC-2014 (5th Edition), prepared by Al Farooq Corporation, dated MAY 29, 2015, OCT 21, 2015 and last revised on AUG 24, 2016, signed and sealed by Javad Ahmad, P.E.
- 2. Engineering structural analysis of tested stiles & interlocks Vs. redesigned, prepared by Al Farooq Corporation, dated AUG 13, 2012, signed and sealed by Javad Ahmad, P.E. and approved dated 09/14/12 by RER (submitted under file #13-0115.05).
- 3. Glazing complies w/ ASTME-1300-02, -04 & -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. (former E.I. DuPont DeNemours & Co., Inc.) for the "Sentry Glass ® Interlayer", expiring on 07/4/17.
- 2. Notice of Acceptance No. **14-0916.10** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "Kuraray **Butacite PVB Interlayer**", expiring on 12/11/16.

F. STATEMENTS (Item #2 submitted under file #13-0115.05)

- 1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 05/29/15, signed and sealed by Javad Ahmad, P.E.
- 2. E-mail dated 09/12/13 issued by Fenestration testing lab, clarify ¹/₂" shim gap used at unanchored (free) jambs in Test report FTL-7130, sample A-1. sent by Ms. Iliana Sanchez.
- 3. Lab compliance as part of the above referenced test report. Ishan 1. Chanks

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 20-1118.09 Expiration Date: September 19, 2023 Approval Date: February 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER (Items 2 thru 4 were submitted under file #13-0115.05)

- 1. This NOA revises #13-0115.05, expiring 09/19/18.
- 2. Test proposal dated AUG 13, 2012, prepared by Al-Farooq Corp and approved dated 09/14/12 by RER.
- 3. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General manager respectively on behalf of the companies.
- 4. Technical cut sheet data for EPDM, rubber compound by Solucionesencaucho, Columbia.

2. Evidence submitted under previous approval.

A. DRAWINGS

1. Drawing No. **W13-07 Rev E**, titled "Series 6500 Alum Sliding Glass Door (LMI)", sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on May 15, 2018.

B. TESTS

1. None.

C. CALCULATIONS

Anchor verification calculations and structural analysis, complying with FBC-2017 (6th Edition), prepared by Al Farooq Corporation, dated MAR 21, 2018 and last revised on May 08, 2018, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

- 1. 1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "Sentry Glass ® Interlayer", expiring on 07/4/18.
- Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. (former E.I. DuPont De Nemours & Co., Inc.) for "Trofosil, ultra clear, clear & color PVB Interlayer", expiring on 07/08/19.

F. STATEMENTS

- 1. Statement letter of conformance to **FBC 6th Edition (2017)** and of no financial interest, prepared by Al Farooq Corporation, dated 03/14/18, signed and sealed by Javad Ahmad, P.E.
- 2. Statement of lab compliance, as part of test report.

G. OTHER

1. This NOA revises & renews #15-0602.07, expiring 09/19/23.

3. New Evidence submitted

A. DRAWINGS

1. Drawing No. **W13-07 Rev F**, titled "Series 6500 Alum Sliding Glass Door (LMI)", sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on NOV 17, 2020, signed and sealed by Jalal Farooq, P.E.

Ishag 1. Chandes

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 20-1118.09 Expiration Date: September 19, 2023 Approval Date: February 18, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. None.

C. CALCULATIONS

Anchor verification calculations and structural analysis, complying with FBC 7th Edition (2020), dated 11/06/20, 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. **19-0305.02** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 05/09/19, expiring on 07/08/24.
- 2. Notice of Acceptance No. **17-0808.02** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for the "Sentry Glass ® Interlayer", expiring on 07/4/23.

D. STATEMENTS

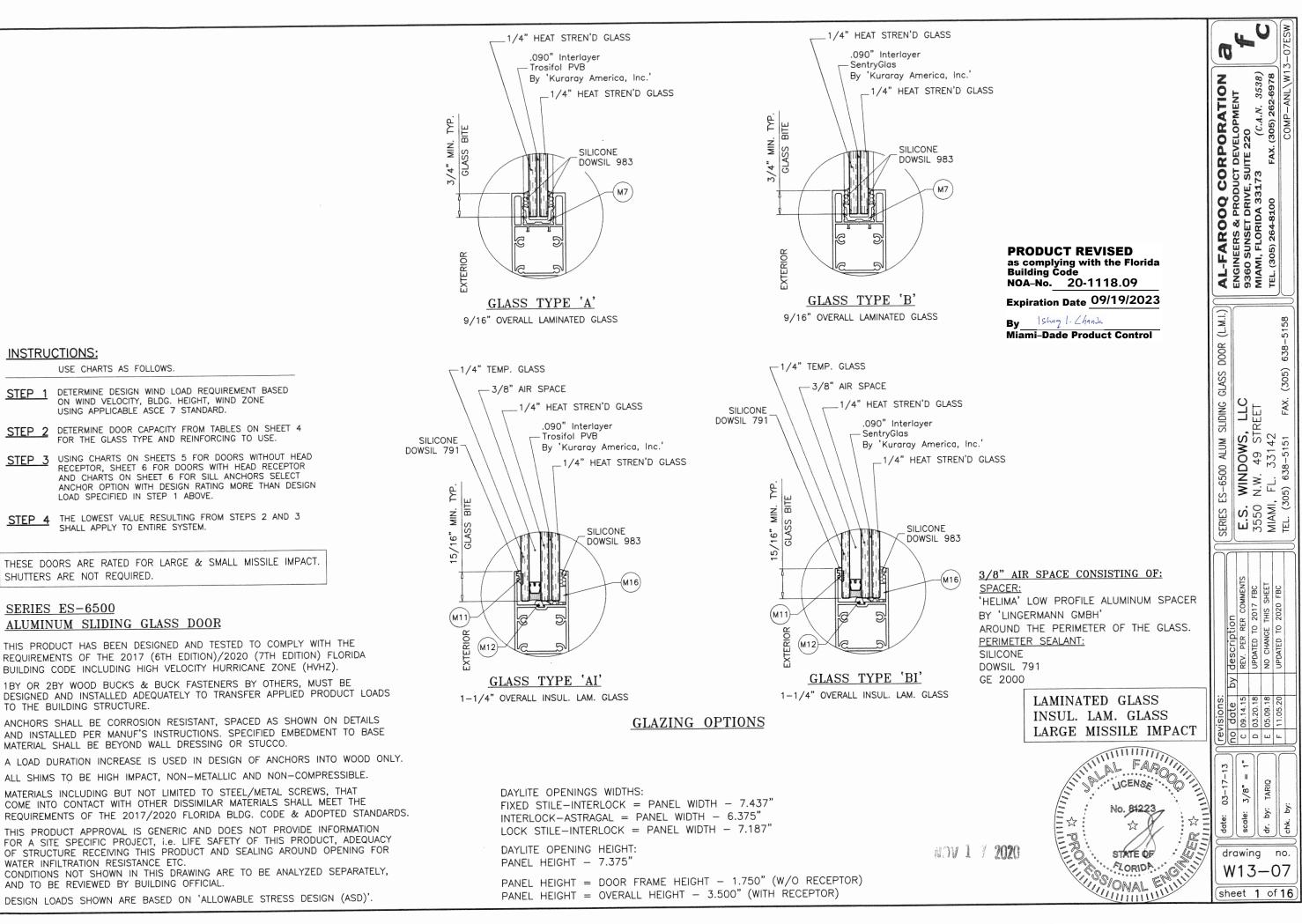
- 1. Statement letter of conformance, complying with **FBC** 7th **Edition (2020)**, dated 11/06/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
- 2. Distribution agreement between Energia Solar, S.A.-ES Windows and ES Windows, LLC, dtd 08/03/15, signed by Ms. Carla Garcia (MGR) and Andres Chamorro (Gen. MGR) respectively (original copy in various ES approved NOA(s) files.

G. OTHER

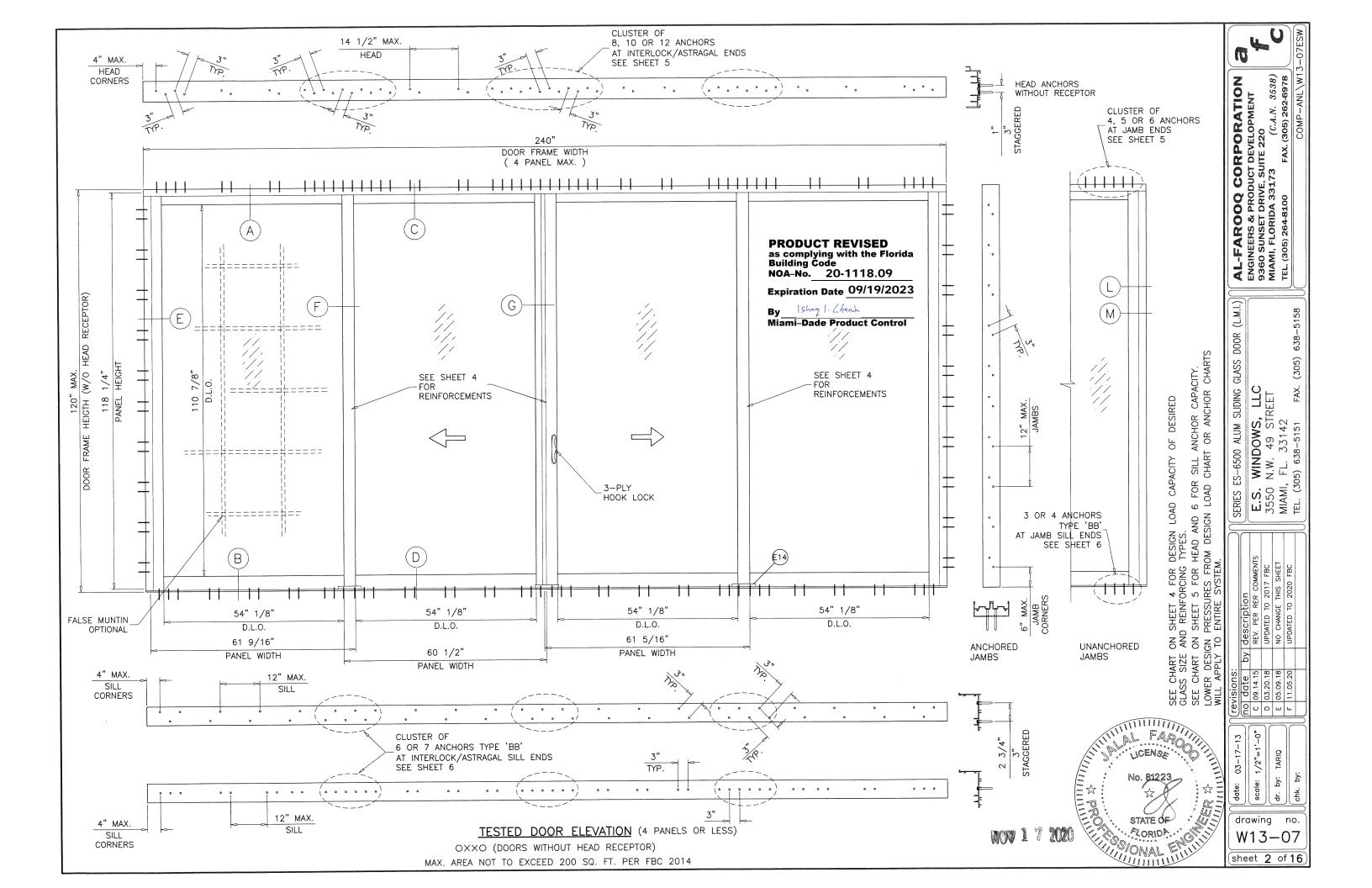
1. This NOA revises NOA No. 18-0322.05, expiring 09/19/23.

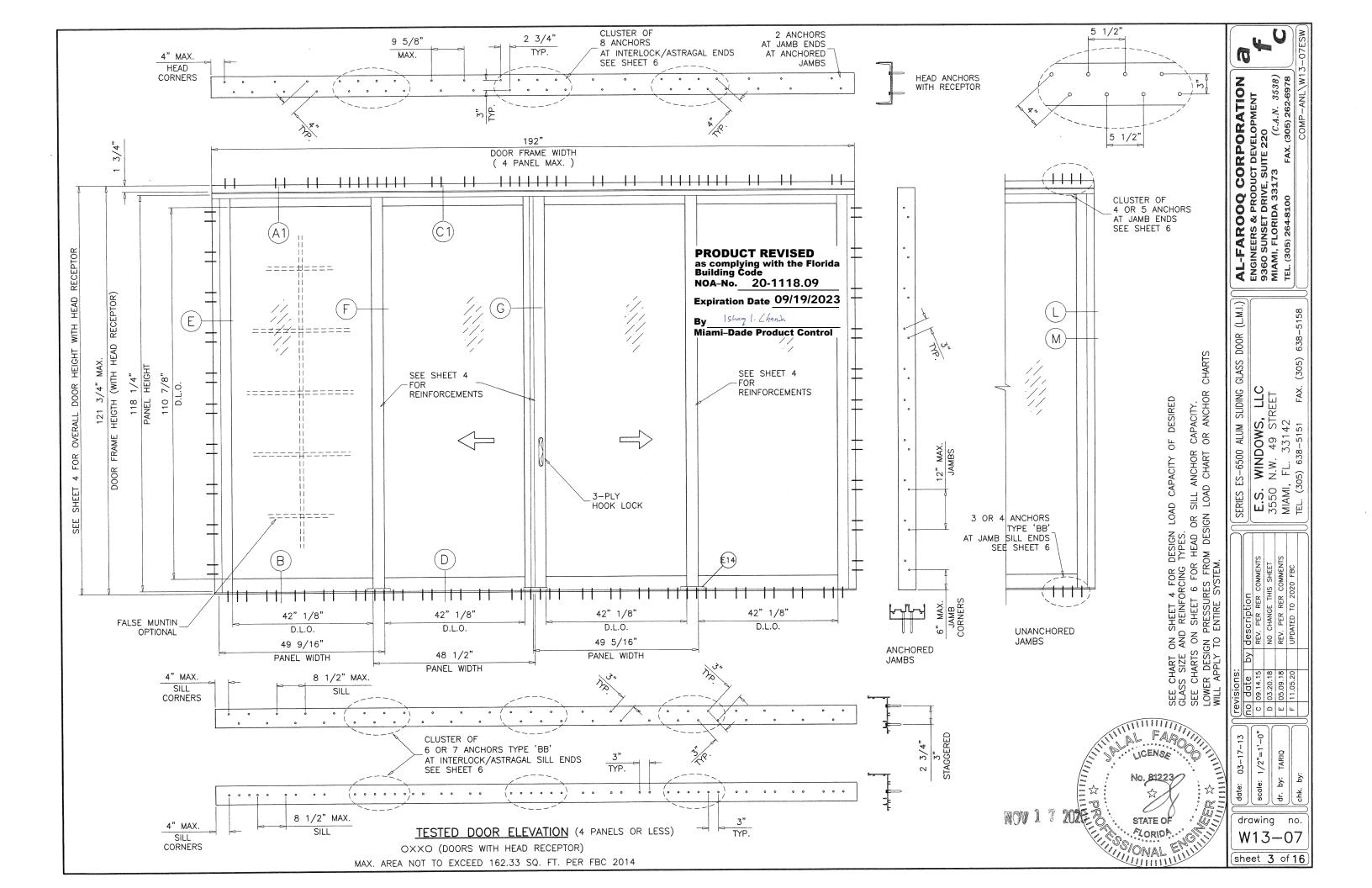
Ishag 1. Chanda

Ishaq I. Chanda, P.E. Product Control Unit Supervisor NOA No. 20-1118.09 Expiration Date: September 19, 2023 Approval Date: February 18, 2021



AND TO BE REVIEWED BY BUILDING OFFICIAL.





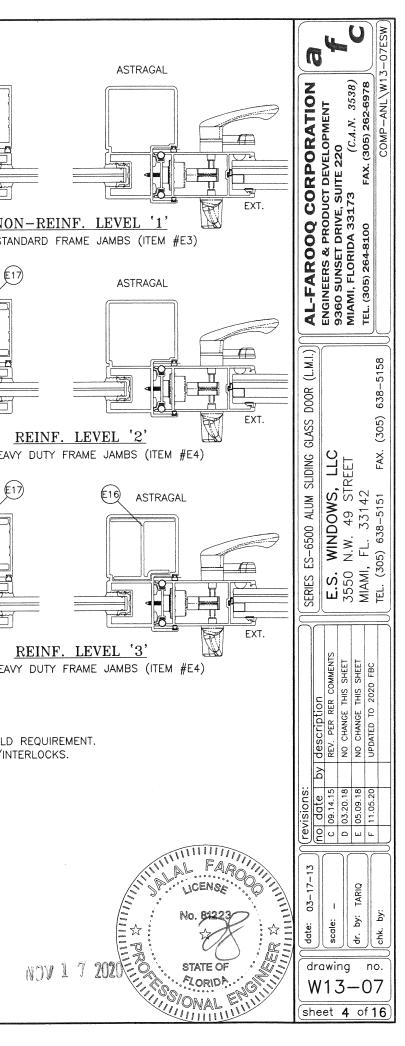
			NAME OF TAXABLE PARTY OF TAXABLE PARTY.															
	DESIGN	LOAD CAH	PACITY -	PSF (WI	TH OR W	TTHOUT H	HEAD REG	CEPTOR)					7	I [e)		
				LEVEL '1'		REINF. I		REINF. I	EVEL '3'									
	DOOR FRAME	GLASS 'A	` & 'A1'	GLASS 'E	3' & 'B1'	GLASS 'B	' & 'B1'	GLASS 'H	3' & 'B1'				3/4				INTERLOCK	
PANEL WIDTH INCHES	HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	Ā		îni pulț	-				- Fray	3
36		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0			PL P	+			PAL_		ç
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0				CHART					1
48	82	85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0				1					-9
54		85.0	85.0	85.0	85.0	85.6	93.3	106.7	120.0		E D		FROM					<u></u>
60		-	_	85.0	85.0	77.0	84.0	96.0	108.0									3-1
36		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0				Ë.	F				
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0				Ш М	HEIGHT			1	NON-
48	84	85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0	E E			FRAME				WITH S	STANDA
54		85.0	85.0	85.0	85.0	85.6	93.3	106.7	120.0	R) HEI				EPT				-
60		-	-	85.0	85.0	77.0	84.0 120.0	96.0 120.0	108.0 135.0	ME PTO			DOOR	OVERALL HI RECEPTOR			INTERLOCK	£17)
36		85.0	85.0	85.0 85.0	85.0 85.0	110.0	120.0	120.0	135.0	ERAME HEIGHT RECEPTOR)		4						<u> </u>
42	90	85.0 85.0	85.0 85.0	85.0	85.0	96.3	105.0	120.0	135.0	8 8 1			<u>ି</u> (ନ	MAX. HEAD				귀
48 54	90			85.0	85.0	85.6	93.3	106.7	120.0	DOOR			PTC	3/4" (WITH				,
60			-	85.0	85.0	-	-	96.0	108.0				RECEPTOR)	3/ (WI				
36		8 5 .0	8 5 .0	8 5 .0	8 5 .0	110.0	120.0	120.0	135.0	MAX. (W/O				21				
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0	20"			HEAD	-				7
48	96	85.0	85.0	8 5.0	85.0	96.3	105.0	120.0	135.0	-								5
54		-		85.0	85.0	-	-	106.7	120.0				(WITH					
60			_	85.0	85.0	-	-	96.0	108.0		刺口口							RE
36		-	-	85.0	85.0	110.0	120.0	120.0	135.0				HEIGHT				WITH H	EAVY [
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0			E SA	T L					_
48	102	-		85.0	85.0	96.3	105.0	120.0	135.0				RAL			-	INTERLOCK	£17
54		-	-	85.0	85.0		-	106.7	120.0				OVERALL					
60				85.0	85.0				-				Ū					7
36			-	85.0	85.0	110.0	120.0	120.0	135.0	<u> </u>	UV 11 U		-	L				C
42		_	-	85.0	85.0	110.0	120.0	120.0	135.0	-								
48	108		-	85.0	85.0	-	-	120.0	135.0	-								-
54		-	-	85.0	85.0	-	-	-		-					ICT REVISED			mil
60			-	85.0	85.0	-		-	-				a	s comp	lying with the Flori	ida		.
36		-	-	85.0	85.0	110.0	120.0	120.0	135.0	-				Building	Code 20-1118.09			
42		-	-	85.0	85.0	110.0	120.0	120.0	135.0							22	€1)	RE
48	114		-	85.0	85.0	-	-		- 135.0	1				-	on Date <u>09/19/20</u> 2	23	WITH H	EAVY [
54		-	-	85.0	85.0	-				-					eg 1. Chanda			
60				85.0 85.0	85.0 85.0	110.0	120.0	120.0	135.0	1			N	liami-Da	ade Product Contro	bl		
36				85.0	85.0	110.0	120.0	120.0	135.0			NOTE:						
42	120	-		85.0	85.0	-	-	120.0	135.0	1		SEE SHE	EET 12	FOR FIX	ED PANEL CLIP, AN	IGLE AND	SNAP ON THRESHO	LD RE
48	120		_	85.0	85.0			-	-	1		ALSO SE	EE SHEE	ET 8 FO	R APPLICABLE EXTR	USION TE	MPERS FOR STILES,	/INTER
60			-	85.0	85.0	-	-	-	_	1								
60						1				J								

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR. FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1-3/4".

> DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS REQUIRED.

NOTE:

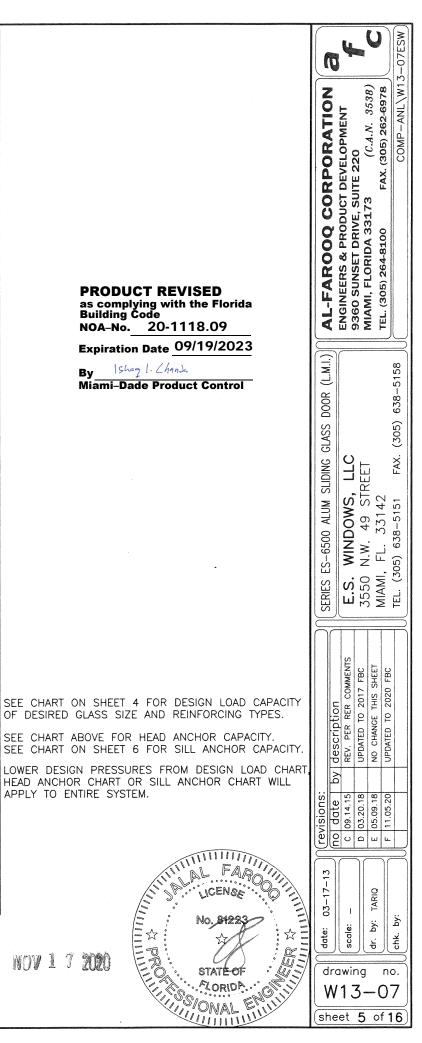
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



						(DO	ORS WITHOUT	AD CAPACITY HEAD RECE	PTOR)						r
ANCHOR	TYPE	ANCHOR TYPE 'AA'			ANCHOR TYPE 'BB'					ANCHOR TYPE 'C'				ANCHOR 'CC	
SHIM SPACE		1/4" SHIM	3/8" MA	X. SHIM	1/4" SHIM	3/8" M.	AX. SHIM	1/2	" MAX. SHIM	1	1/4" SHIM 3/8" MAX. SHIM			M	3/8" SHIM
	2002 52445	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	12 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	12 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
PANEL WIDTH	DOOR FRAME HEIGHT	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)	EXT. (+)
INCHES	INCHES	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)	INT. (-)
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48	82	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48	84	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48	90	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42	2	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
40 54	30	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
		120.0	108.0	108.0	120.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
60				135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
36		135.0	135.0		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	+	135.0	135.0	126.5	135.0	135.0	135.0	126.5	135.0	135.0	135.0
48	102	135.0	135.0	135.0	135.0		120.0	117.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0
54		120.0	120.0	120.0	120.0	120.0		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0		135.0	135.0	135.0	135.0	135.0	135.0	135.0
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0			135.0	129.6	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	129.6	135.0	135.0		117.5	135.0	135.0	135.0
48	108	135.0	135.0	135.0	135.0	135.0	135.0	117.5	135.0	135.0	135.0	85.0	85.0	85.0	85.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	t	85.0		85.0
60	r	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0		85.0 135.0	135.0
36		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0		<u>+</u>
42		135.0	135.0	135.0	135.0	135.0	135.0	121.3	135.0	135.0	135.0	121.3	135.0	135.0	135.0
48	114	135.0	135.0	135.0	135.0	135.0	135.0	109.7	135.0	135.0	135.0	109.7	135.0	135.0	135.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36		135.0	135.0	135.0	135.0	135.0	135.0	129.0	135.0	135.0	135.0	129.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	113.9	135.0	135.0	135.0	113.9	135.0	135.0	135.0
48	120	135.0	130.6	135.0	135.0	130.6	135.0	102.8	128.5	135.0	135.0	102.8	128.5	135.0	135.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS A FREE STANDI JAMB ENDS

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.

LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.



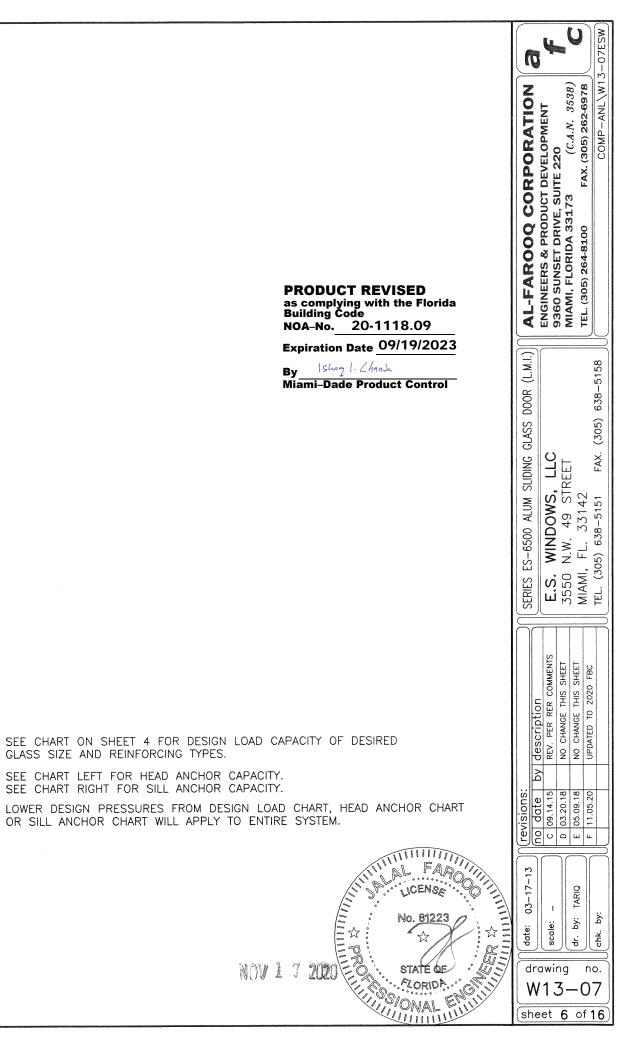
LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.

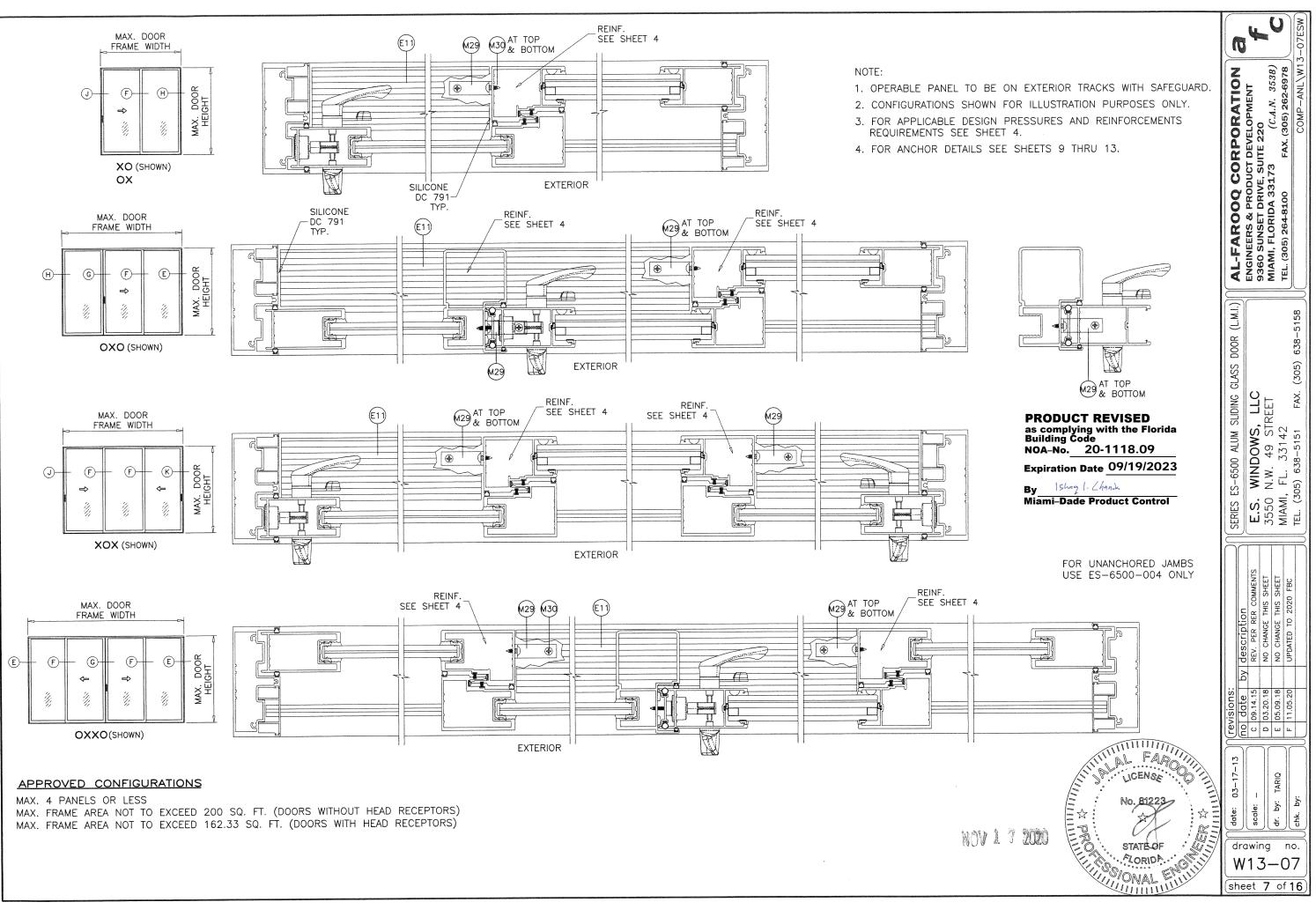
CHARTS ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR. FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1-3/4".

	(DOORS WITH	OAD CAPACITY - I HEAD RECEPTO 3 ELEV. & SHEET 1	R)	SILL (APPLICAE	ANCHOR LO	AD CAPACITY WITH OR W/O HEAD	- PSF RECEPTOR)		
ANCHOR		ANCHOR TY		ANCHOR	TYPE	ANCHOR TYPE 'BB'			
SHIM S		1/4" MAX		SHIM S	SPACE	1/4" MAX. SHIM			
STRIM S	DOOR FRAME	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS		DOOR FRAME	6 ANCHORS AT MTG. STILE ENDS	7 ANCHOR AT MTG. STILE END		
ANEL WIDTH		EXT. (+) INT. (-)	EXT. (+) INT. (-)	PANEL WIDTH INCHES	HEIGHT INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)		
36		135.0	135.0	36		135.0	135.0		
42	-	135.0	135.0	42		135.0	135.0		
48	82	135.0	135.0	48	82	135.0	135.0		
40 54	02	120.0	120.0	54		120.0	120.0		
60		108.0	108.0	60		108.0	108.0		
		135.0	135.0	36		135.0	135.0		
36	-		135.0	42		135.0	135.0		
42		135.0	135.0	48	84	135.0	135.0		
48	84	135.0	120.0	54		120.0	120.0		
54		120.0		60		120.0	108.0		
60		108.0	108.0 135.0			135.0	135.0		
36		135.0	135.0	36 42		135.0	135.0		
42	00	135.0	135.0	48	90	135.0	135.0		
48	90		120.0	54		120.0	120.0		
54		120.0	120.0	60		108.0	108.0		
60		108.0		36		135.0	135.0		
36		135.0	135.0	42		135.0	135.0		
42		135.0	135.0		96	135.0	135.0		
48	96	135.0	135.0	48			120.0		
54		120.0	120.0	54		120.0			
60		108.0	108.0	60		108.0	108.0		
36		135.0	135.0	36		135.0	135.0		
42		135.0	135.0	42	100	135.0	135.0		
48	102	135.0	135.0	48	102	135.0	135.0		
54		120.0	120.0	54		120.0	120.0		
60		85.0	85.0	60		85.0	85.0		
36		135.0	135.0	36		135.0	135.0		
42		135.0	135.0	42		135.0	135.0		
48	108	135.0	135.0	48	108	135.0	135.0		
54		85.0	85.0	54		85.0	85.0		
60		85.0	85.0	60		85.0	85.0		
36		135.0	135.0	36		135.0	135.0		
42		135.0	135.0	42		135.0	135.0		
48	114	134.0	135.0	48	114	132.8	135.0		
54		85.0	85.0	54		85.0	85.0		
60		85.0	85.0	60		85.0	85.0		
36		135.0	135.0	36		135.0	135.0		
42		135.0	135.0	42		135.0	135.0		
48	120	126.0	135.0	48	120	124.5	135.0		
54		85.0	85.0	54		85.0	85.0		
60		85.0	85.0	60		85.0	85.0		
		4 ANCHORS AT FREE STANDING JAMB ENDS	5 ANCHORS AT FREE STANDING JAMB ENDS			3 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS FREE STAN		

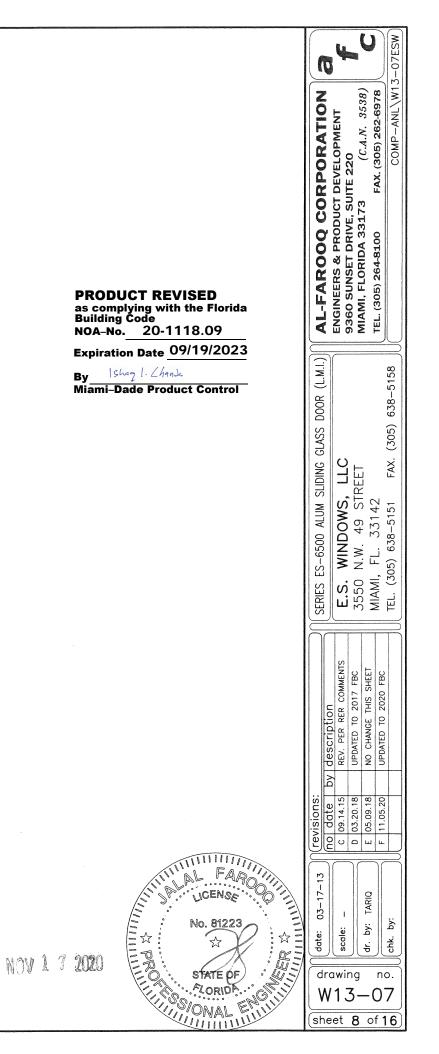
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

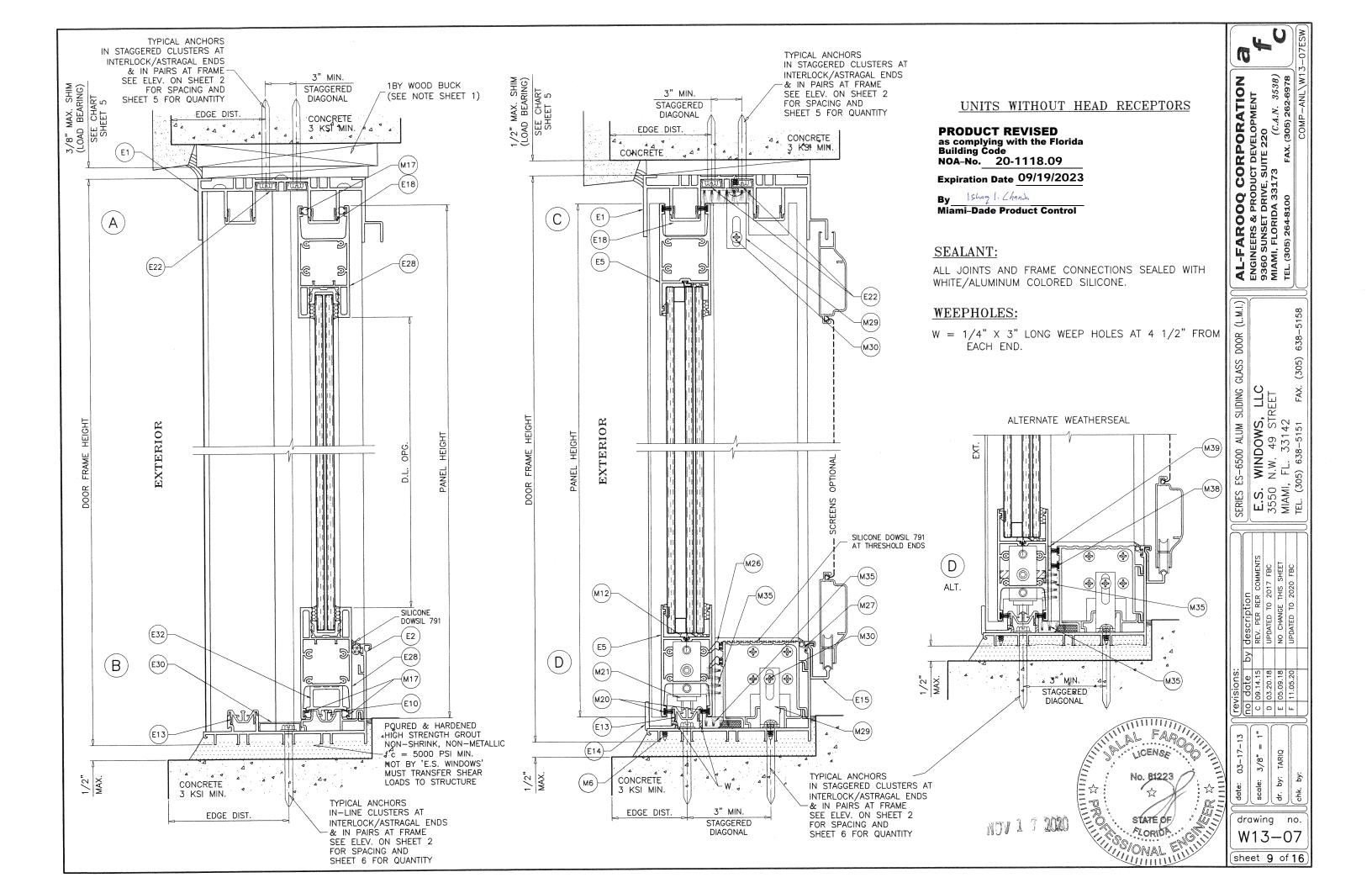
SEE CHART LEFT FOR HEAD ANCHOR CAPACITY. SEE CHART RIGHT FOR SILL ANCHOR CAPACITY.





ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-001	1	STANDARD FRAME HEAD	6063-T6	
E2	ES-6500-002	1	FRAME SILL	6063-T6	-
E3	ES-6500-003	2	STANDARD FRAME JAMB	6063-T6	LIMIT MAX. LOADS TO ±85 PSF
E4	ES-6500-004	2	HEAVY DUTY FRAME JAMB	6063-T6	_
E5	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	
E6	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	_
E8	ES-6500-008	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6005-T5	-
E9	ES-6500-009	1	ASTRAGAL ADAPTER	6063-T6	-
E10	ES-6500-010	1	ADD-ON TRACK	6063-T6	-
E11	ES-6500-011	1	THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	
E12	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	_
E13	ES-6500-013	1	TRACK INSERT	6063-T6	_
E14	ES-6500-014A	_	RETAINER CLIP, 4" LONG	6063-T6	
E15	ES-6500-015	AS REQD.	SCREEN RAIL	6063-T6	
E16	ES-6500-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E10 E17	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E17 E18	ES-6500-017	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
	ES-600-018 ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	_
E22		AS REQU.	HEAD RECEPTOR	6063-T6	
E24	ES-6500-019		RECEPTOR REINFORCEMENT, FULL LENGTH	6005-T5	-
E25	ES-6500-020	1	FRAME HEAD AT RECEPTOR	6005-T5	-
E26	ES-6500-021		LOCK STILE (LAM. GLASS)	6063-T6	-
E27	ES-6500-023	/	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	
E28	ES-6500-024			6005-T5	_
E29	ES-6500-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6063-T5	-
E30	ES-6500-027	1	SILL SCREW COVER	6005-T5	
E31	ES-6500-026	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	
E32	ES-6500-033	2	FIXED PANEL BOTTOM GUIDE		P.H. SMS
M1	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL ST. STEEL	P.H. SMS
M2	#10 X 1 1/4"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	F.H. SMS
М3	#8 X 1"	2/ LOCK	LOCK FASTENERS	ST. STEEL	P.H. SMS
M4	#8 X 3/4"	2/ HANDLE	HANDLE SET FASTENERS	ST. STEEL	F.H. SMS F.H. SMS
M6	#10 X 1/2"	2/ CLIP	RETAINER CLIP FASTENERS		
M7	ES-6500-G01A		GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A. THERMOPLASTIC ELASTOMER
M8	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	DUROMETER 80±5 SHORE A, EXTRUSIONES S.A.
M10	ES-8011	AS REQD.	SPACER GASKET	EPDM	
M11	27-445	AS REQD.	GLAZING WEDGE GASKET	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
M12	27-448	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A, SOLUCIONESENCAUCHO
M13	27-449	AS REQD.	GLAZING GASKET AT TOP RAIL AND STILES	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
M16	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	
M17	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	
M18	Q200T190	AS REQD.	WEATHERSEAL EXTERIOR	POLYETHYLENE	
M19	Q150T270	AS REQD.	INTERLOCK BUMPER	POLYETHYLENE	
M20	W2230012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	
M21	GTT-234/460-02-A	2/ PANEL	ROLLER	-	PABOSE
M22	PS01-1015-00B	1	MORTISE LOCK KEEPER	-	INTERLOCK
M23	PS01-0035-00B	1	TWO POINT 3-PLY HOOK LOCK	-	INTERLOCK
M24	PS01-0016-XXX	1/ MOV. PANEL		-	INTERLOCK
M26	52019	AS REQD.	THRESHOLD W'STRIPPING		AMESBURY
M27	ES-7000 G01	AS REQD.	SILL W'STRIPPING	SILICONE	DUROMETER 60±5 SHORE A
M29	ALU-A-027	-	FIX. PANEL ANGLE, 2" X 2" X 1/8" X 7/8" LONG	6063-T5	HEAD/SILL (FIXED PANEL)
M30	#14 X 1"	2/ CLIP	FIX. PANEL ANGLE FASTENERS	-	HWH SMS
M31	ES-5008	AS REQD.	BULB W'STRIPPING	EPDM	DUROMETER 70 SHORE A
M32	ES-6500-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6500-S02	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK		ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M38	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M39	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-



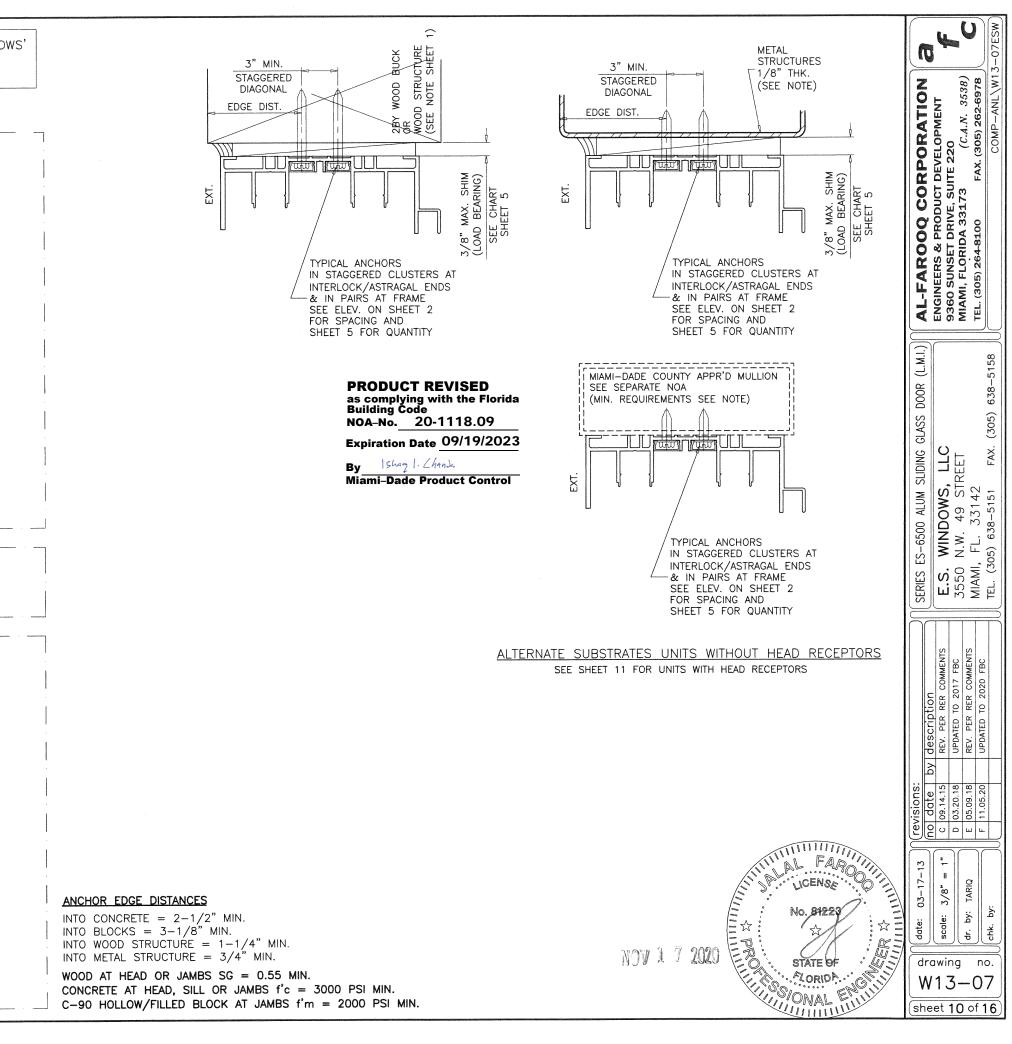


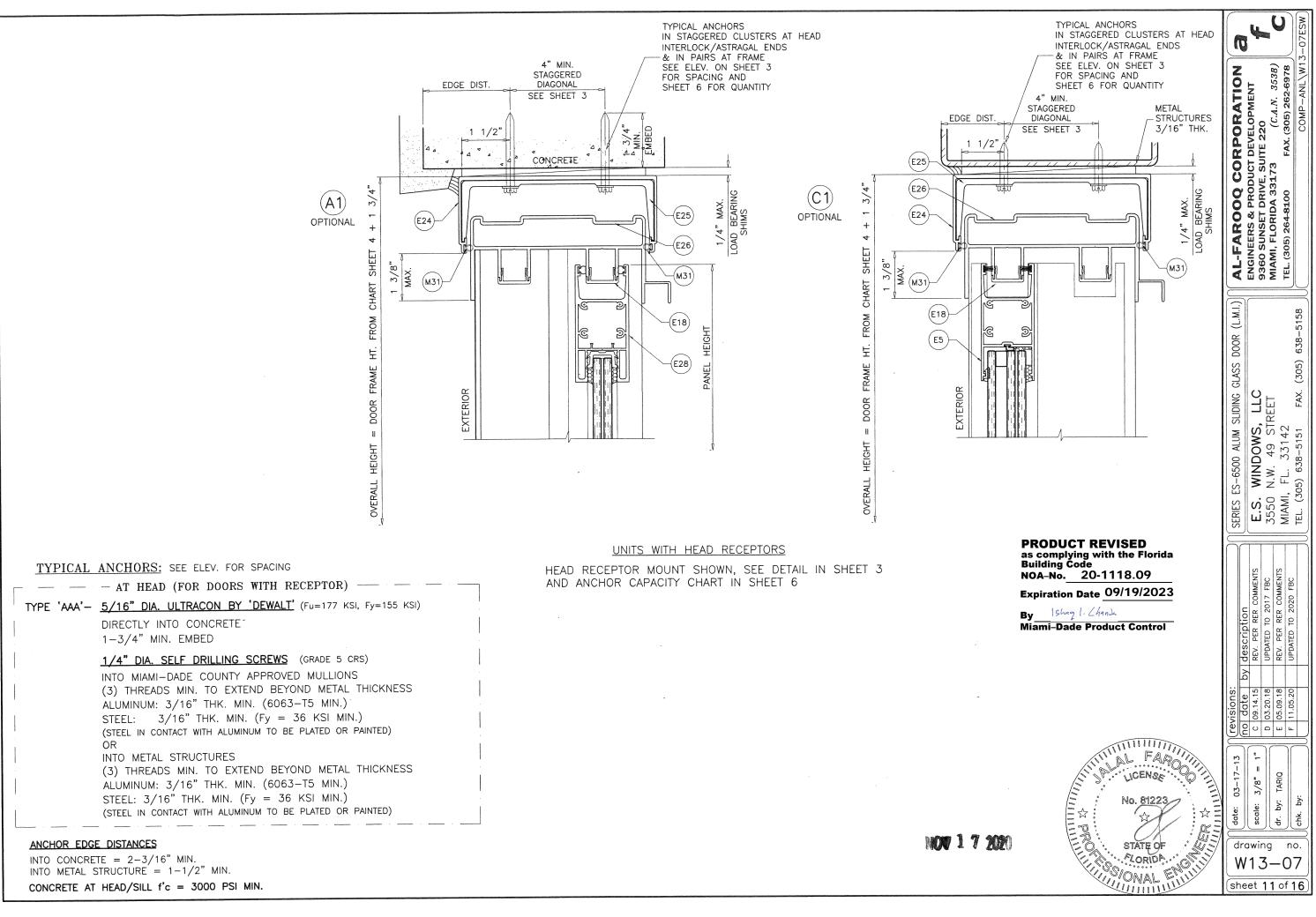
1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

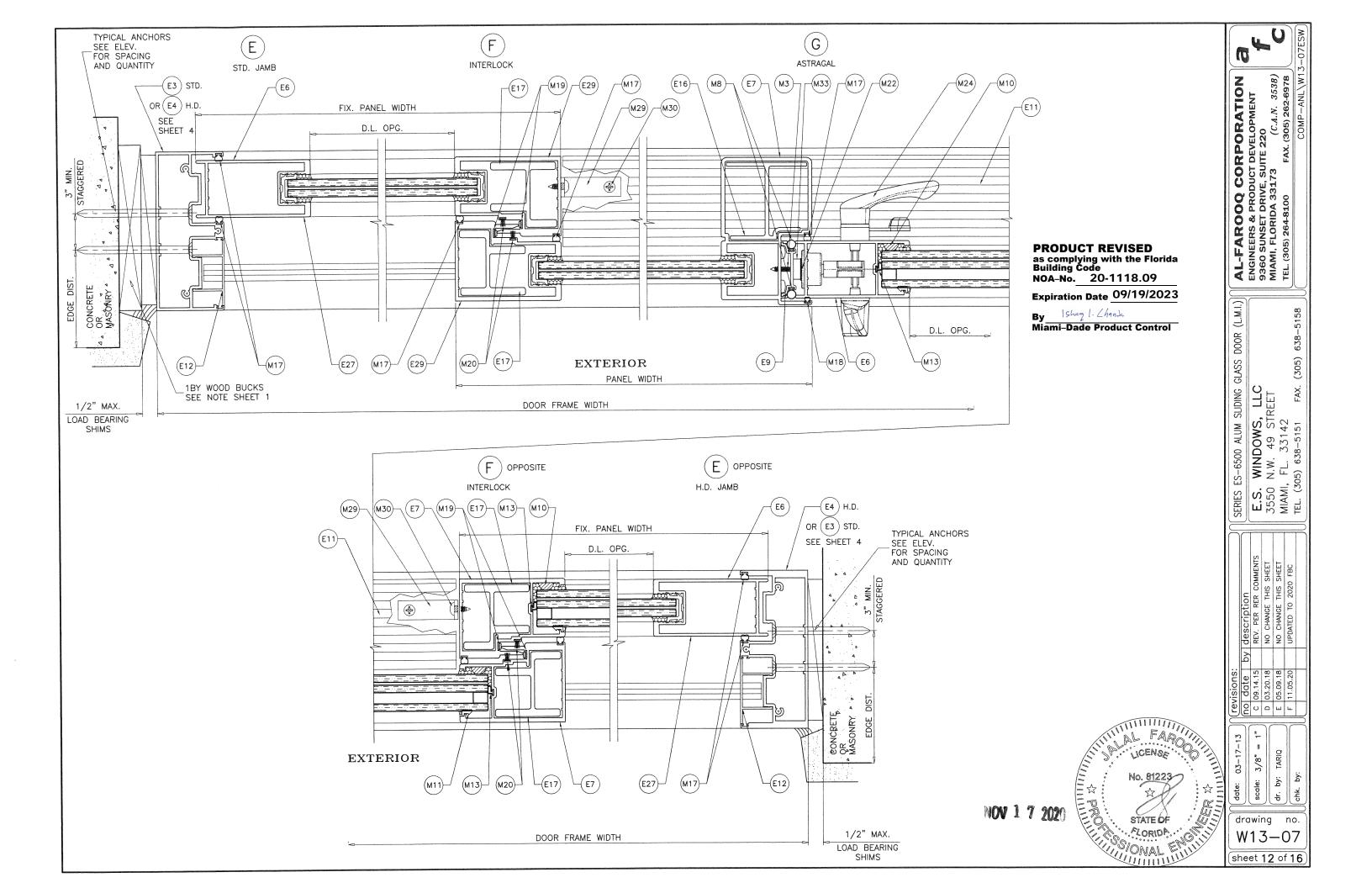
TYPICAL ANCHORS: SEE ELEV. FOR SPACING AT HEAD (FOR DOORS WITHOUT HEAD RECEPTOR) — TYPE 'AA'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) INTO WOOD STRUCTURES 1-7/8" MIN. PENETRATION INTO WOOD THRU 1BY OR 2BY BUCKS INTO CONCRETE 1-1/2" MIN. EMBED INTO CONCRETE TYPE 'BB'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) DIRECTLY INTO CONCRETE 1-1/2" MIN. EMBED TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) TYPE 'CC'- 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) OR INTO METAL STRUCTURES (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) — AT SILL (FOR DOORS W/WO HEAD RECEPTOR — TYPE 'BB'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) DIRECTLY INTO CONCRETE 1-1/2" MIN. EMBED AT JAMBS (FOR DOORS W/WO HEAD RECEPTOR) 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD THRU 1BY BUCKS INTO CONCRETE OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI) DIRECTLY INTO CONCRETE 1-1/2" MIN. EMBED 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED) OR INTO METAL STRUCTURES (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

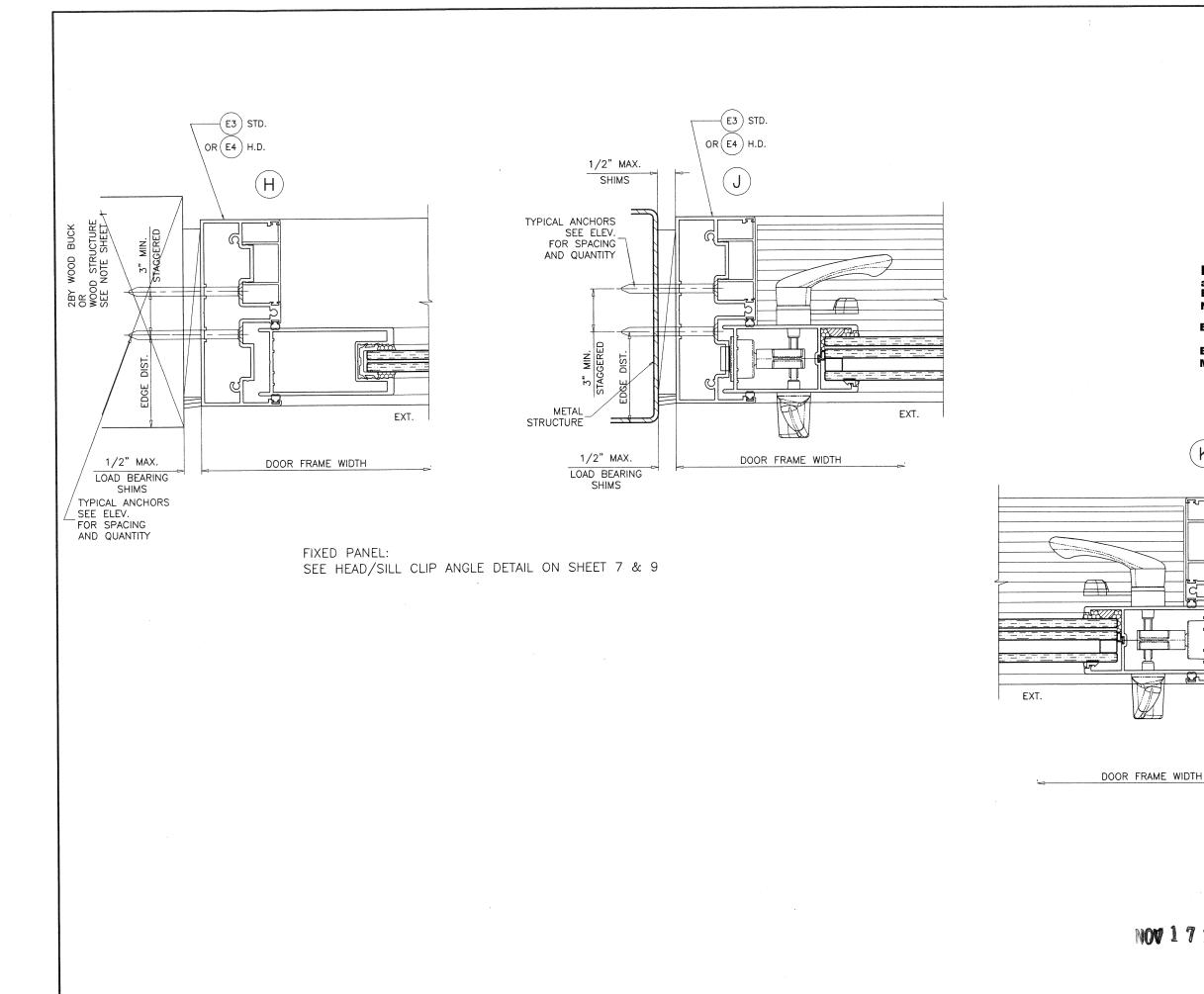
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)

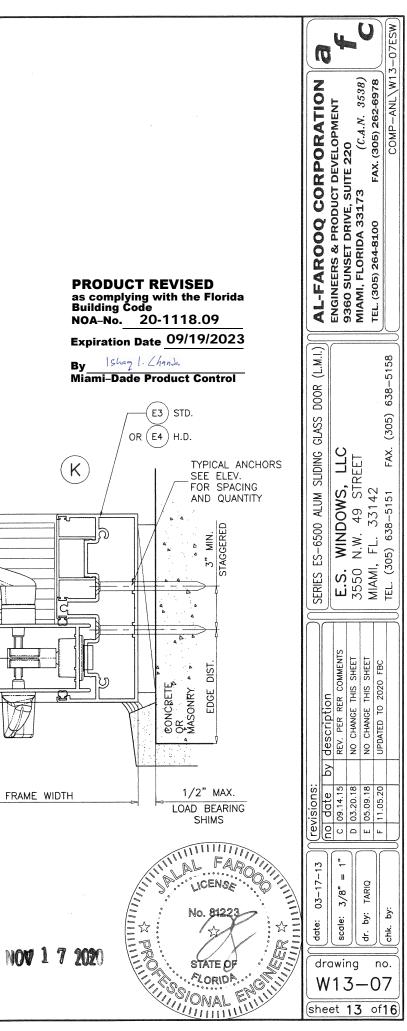
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

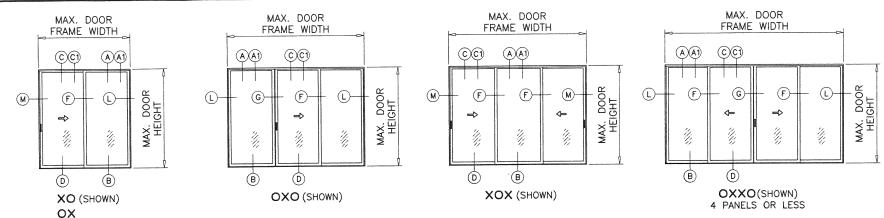












ANCHORS AT HEAD/SILL AND FREE JAMB ENDS SEE ELEVATIONS ON SHEETS 2 & 3 (APPLICABLE TO ALL SIZES ON SHEET 4 AND CONFIGURATIONS ABOVE) MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS W/O HEAD RECEPTORS) MAX. AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)

DOWSIL	790	=	100%	STRETCH	
--------	-----	---	------	---------	--

ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 100% STRETCH SILICONES							
	1/4" MIN. GAP	3/8" MIN. GAP					
DOOR HEIGHT	100%	100%					
96"	135 PSF	135 PSF					
108"	135 PSF	135 PSF					
120"		135 PSF					
MAXIMUM GAP = $1/2$ " ALL CASES							

CHART APPLICABLE TO ALL SIZES, LOAD CAPACITIES AND CONFIGURATIONS AS SHOWN ON SHEETS 4, 5, 6 AND 7.

NOTE:

DATA IN THIS SHEET MAY BE USED TO QUALIFY SEALANT TO BE USED AT UNANCHORED JAMBS. PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)

