



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

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

Tecnoglass, LLC
3550 NW 49 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 "PH 3050" Aluminum Project-Out/In Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W09-22**, titled "PH3050 Alum. Project Out/In Wdw. (L.M.I.)", sheets 1 through 10 of 10, dated 04/04/09, with revision **C** dated 11/23/20, prepared by Al-Farooq Corporation, 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 and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia S.A.**, 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.

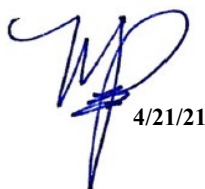
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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. **18-0205.07** and consists of this page 1, evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




4/21/21

NOA No. 21-0225.01
Expiration Date: March 29, 2023
Approval Date: April 29, 2021
Page 1

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. 09-1203.01)
2. Drawing No. **W09-22**, titled "PH3050 Alum Project Out/In Wdw. (L.M.I.)", sheets 1, through 10 of 10, dated 04/04/09, with revision **B** dated 01/05/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.07)

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 Test, per FBC 2411 3.2.1, TAS 202-94
7) Drop Test per FBC, ANSI Z97.1-04/ 16 CFR 1201,
along with marked-up drawings and installation diagram of a series PH 3050 aluminum projected window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5587**, dated 06/06/09, signed and sealed by Michael R. Wenzel, P.E.
(Submitted under NOA No.09-1203.01)

C. CALCULATIONS


1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/29/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.07)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-0808.02** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 12/28/17, expiring on 07/04/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.01
Expiration Date: March 29, 2023
Approval Date: April 29, 2021

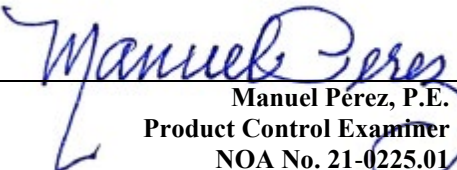
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, with **FBC 6th Edition (2017)**, and of no financial interest, dated December 18, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under NOA No. 18-0205.07)
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.
(Submitted under NOA No. 18-0205.07)
3. Bill of Sale –between Tecnoglass, LLC (“Purchaser”) and RC Aluminum Industries, Inc. (“Seller”) dated and notarized on the 19th day of June, 2013, signed by Raul Casares, President, RC Aluminum Industries, Inc., listing all purchased assets under Exhibit A of Asset Purchase Agreement dated November 19, 2013
(Submitted under NOA No. 18-0205.07)
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.
(Submitted under NOA No. 18-0205.07)
5. Laboratory compliance letter for Test Report No. **FTL-5587**, issued by Fenestration Testing Laboratory, Inc., dated June 06, 2009, signed and sealed by Michael R. Wenzel, P. E.
(Submitted under NOA#09-1203.01)

G. OTHERS

1. Notice of Acceptance No. **13-0328.12**, issued to R. C. Aluminum Industries, Inc. for their Series “PH 3050” Aluminum Project-Out/In Window – L.M.I., approved on 05/16/13 and expiring on 03/24/15.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.01
Expiration Date: March 29, 2023
Approval Date: April 29, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W09-22**, titled “PH3050 Alum Project Out/In Wdw. (L.M.I.)”, sheets 1, through 10 of 10, dated 04/04/09, with revision **C** dated 11/23/20, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 01/29/18 and updated on 02/02/21 to comply with **FBC 7th Edition (2020)**, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.
2. Glazing complies with **ASTM E 1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **18-0725.11** issued to **Kuraray America, Inc.** for their “**Kuraray SentryGlas® Xtra™ (SGX™) Clear Glass Interlayer**” dated 05/23/19, expiring on 05/23/24.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated February 02, 2021, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. Notice of Acceptance No. **18-0205.07**, issued to Tecnoglass, LLC for their Series “PH 3050” Aluminum Project-Out/In Window – L.M.I., approved on 03/29/18 and expiring on 03/29/23.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 21-0225.01
Expiration Date: March 29, 2023
Approval Date: April 29, 2021

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

SERIES PH3050

ALUMINUM PROJECT OUT/IN WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS
OF PROJECTED WINDOWS IN MODULES OF TWO OR MORE WINDOWS
FOR WINDOWS CAPACITY SEE CHARTS ON SHEET 2.

ALSO PROJECTED WINDOWS WITHIN PH3050 WINDOW WALL SYSTEM
SEE SEPARATE NOA FOR PH3050 WINDOW WALL MULLION, GLASS
AND ANCHOR CAPACITIES.

LOWER DESIGN PRESSURES FROM WINDOW CAPACITY CHARTS OR
WINDOW WALL NOA WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2020 (7TH EDITION) FLORIDA BUILDING CODE
INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

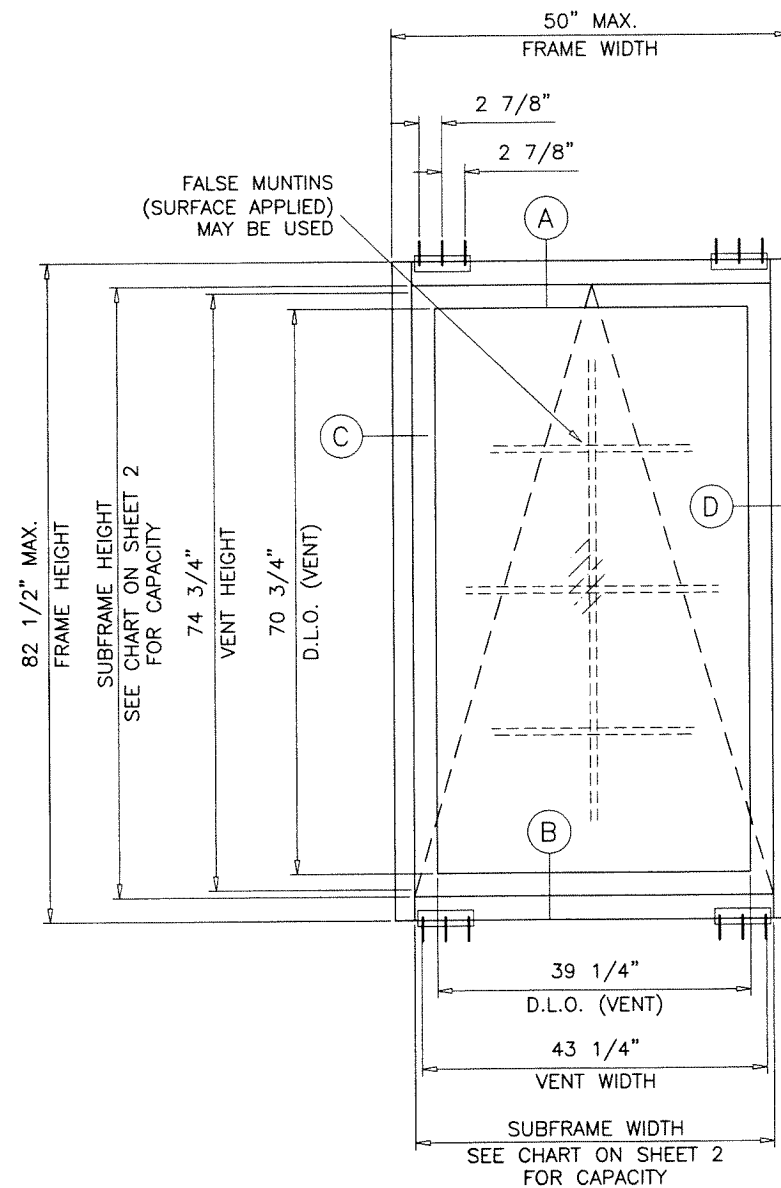
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.

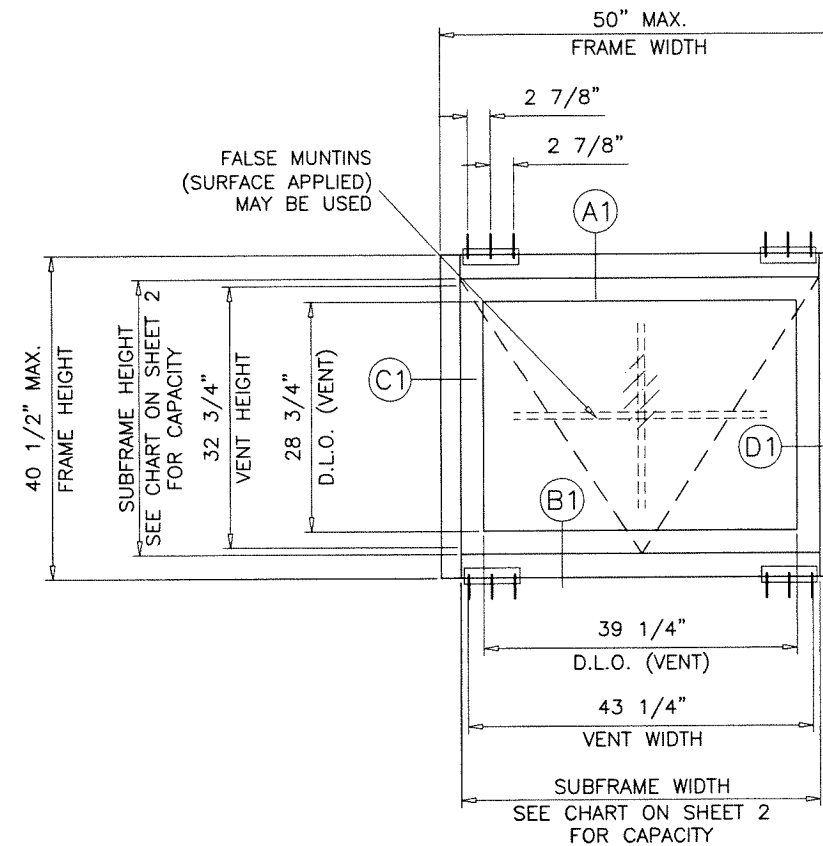
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



TYPICAL ELEVATION

PROJECT OUT



TYPICAL ELEVATION

PROJECT IN

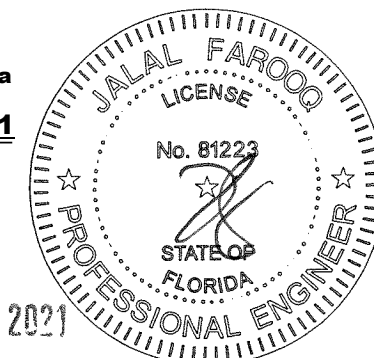
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 21-0225.01

Expiration Date: 03/29/23

By: *Manuel Perez*
Miami-Dade Product Control



INSUL. LAM. GLASS
LARGE MISSILE IMPACT

FEB 22 2021

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W09-22RC

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	03.20.13		UPDATED TO 2010 FBC
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

date: 04-04-09
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

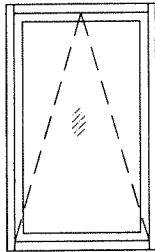
drawing no.

W09-22

sheet 1 of 10

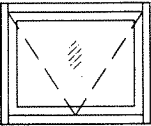
PROJECT OUT WINDOW			
WINDOW DIMS.		DESIGN LOAD CAPACITY - PSF	
SUBFRAME WIDTH	SUBFRAME HEIGHT	EXT.(+)	1NT.(-)
24"	24"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		120.0	120.0
54"		90.1	90.1
60"		64.7	64.7
66"	30"	48.0	48.0
72"		36.7	36.7
24"		120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		111.7	111.7
54"		75.7	75.7
60"		53.8	53.8
66"		39.6	39.6
72"		30.1	30.1
24"	36"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		100.6	100.6
54"		67.0	67.0
60"		47.0	47.0
66"	42"	34.4	34.4
72"		25.9	25.9
24"		120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		94.7	94.7
54"	48"	61.7	61.7
60"		42.7	42.7
66"		30.9	30.9
72"		23.1	23.1
24"		120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"	54"	120.0	120.0
48"		92.7	92.7
54"		58.9	58.9
60"		40.0	40.0
66"		28.6	28.6
72"		21.2	21.2

PROJECT OUT WINDOW			
WINDOW DIMS.		DESIGN LOAD CAPACITY - PSF	
SUBFRAME WIDTH	SUBFRAME HEIGHT	EXT.(+)	1NT.(-)
24"	54"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		92.7	92.7
54"		57.9	57.9
60"		38.5	38.5
24"	60"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		92.7	92.7
54"		57.9	57.9
24"	66"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		92.7	92.7
24"	72"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0
48"		92.7	92.7
24"	76-1/2"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		116.5	116.5



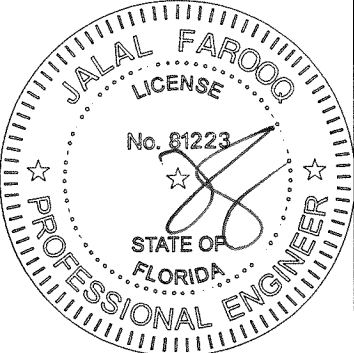
FRAME WIDTH = SUBFRAME WIDTH + 6"
FRAME HEIGHT = SUBFRAME HEIGHT + 6"

PROJECT IN WINDOW			
WINDOW DIMS.		DESIGN LOAD CAPACITY - PSF	
SUBFRAME WIDTH	SUBFRAME HEIGHT	EXT.(+)	1NT.(-)
24"	34-1/2"	120.0	120.0
30"		120.0	120.0
36"		120.0	120.0
42"		120.0	120.0
45"		120.0	120.0



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Fern*
Miami-Dade Product Control

FEB 22 2021



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

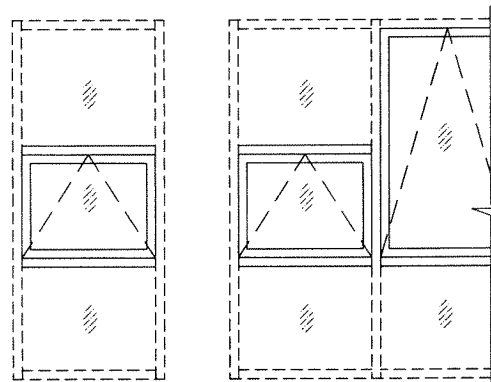
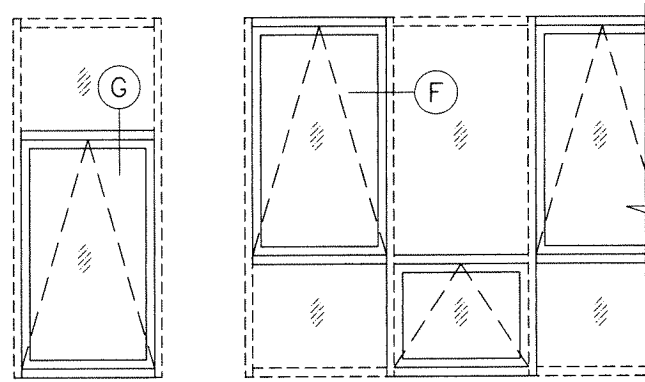
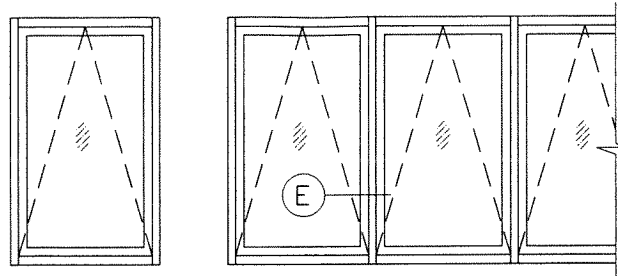
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANI\W09-22RC

PH3050 ALUM PROJECT OUT /IN WDW. (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

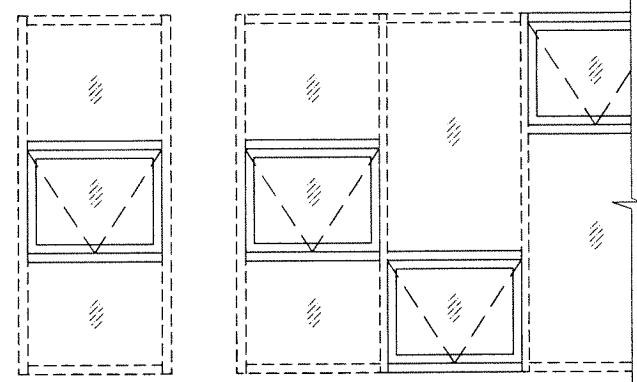
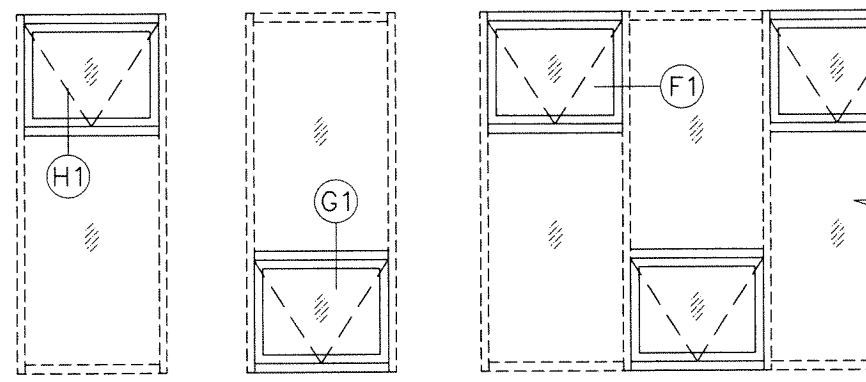
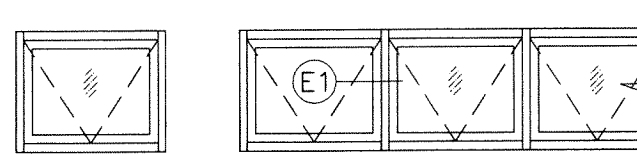
revisions:	no	date	by	description
	A	03.20.13		NO CHANGE THIS SHEET
	B	01.05.18		UPDATED TO 2017 FBC
	C	11.23.20		UPDATED TO 2020 FBC

date:	04-04-09	scale:	-	dr. by:	TARIQ	chk. by:	
-------	----------	--------	---	---------	-------	----------	--

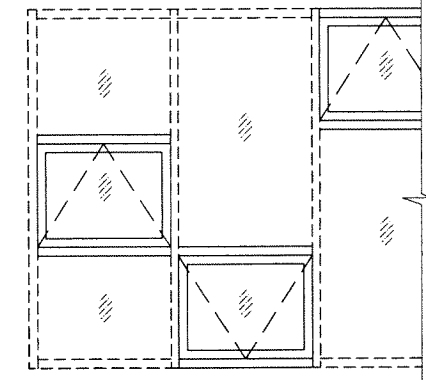
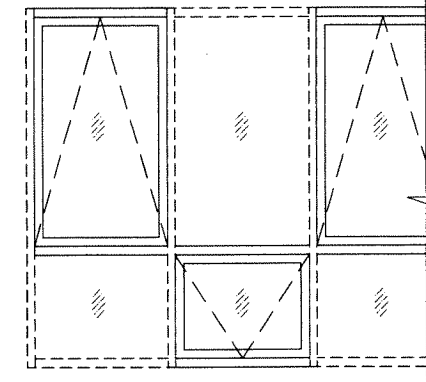
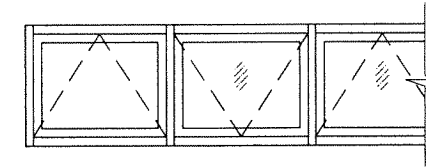
drawing no.	W09-22
sheet	2 of 10



APPROVED CONFIGURATIONS
PROJECT OUT



APPROVED CONFIGURATIONS
PROJECT IN



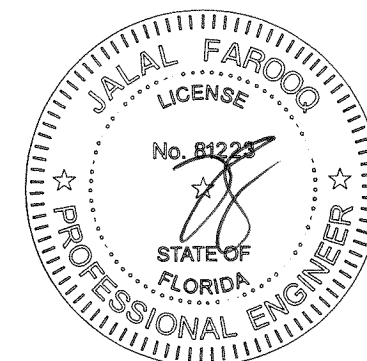
APPROVED CONFIGURATIONS
ANY COMBINATIONS OF PROJECT OUT AND PROJECT IN

SEE SEPARATE NOA FOR PH3050 WINDOW WALL SYSTEM
DESIGN LOADS AND ANCHORS.

LOWER VALUES FROM PROJECTED WINDOW CAPACITY CHART
OR WINDOW WALL SYSTEM NOA WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Peraz*
Miami-Dade Product Control

FEB 22 2021



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

af c
COMP-ANL W09-22RC

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

date: 04-04-09
scale: -
dr. by: TARIQ
chk. by:

no.	date	by	description
A	03.20.13		NO CHANGE THIS SHEET
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

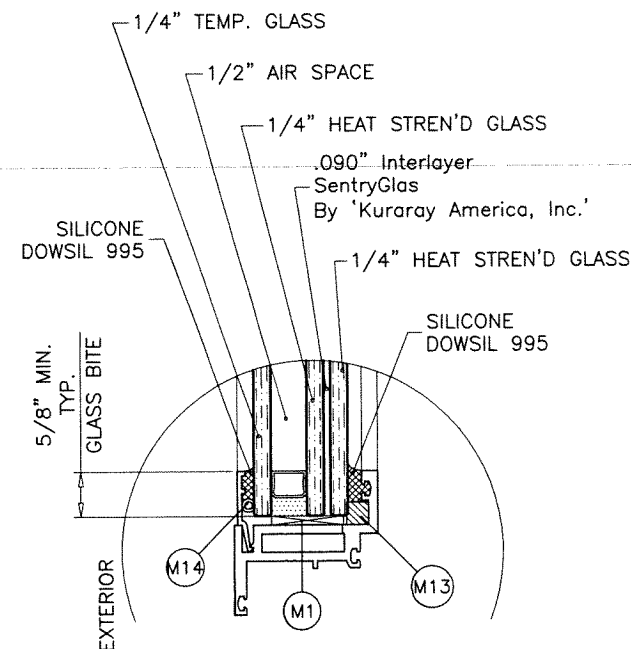
drawing no.
W09-22

sheet 3 of 10

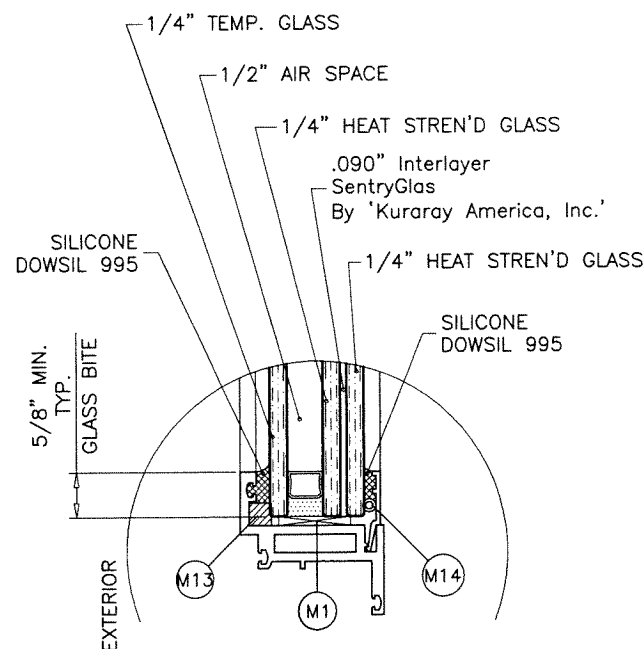
drawing no.
W09-22

sheet 3 of 10

ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	PH3050-017	CLOSED JAMB	6063-T6	-
E2	PH3050-004	HEAD, SILL & INTERMEDIATE HORIZONTAL	6063-T6	-
E3	PH3050-005	HORIZONTAL GLAZING COVER HEAD & SILL	6063-T6	-
E4	PH3050-006	HORIZONTAL GLAZING COVER INTERMEDIATE	6063-T6	-
E5	PH3050-007	INTERIOR HORIZONTAL COVER	6063-T6	-
E6	PH3050-008	ANCHOR HEAD & SILL	6005-T5	-
E7	PH3050-009	HORIZONTAL GLAZING COVER HEAD & SILL (VENT)	6063-T6	-
E8	PH3050-010	HORIZONTAL COVER INTERMEDIATE, HEAD & SILL (VENT)	6063-T6	-
E9	PH3050-011	VENT FRAME SILL	6063-T6	-
E10	PH3050-012	VENT FRAME HEAD & JAMBS	6063-T6	-
E11	PH3050-013	VENT	6063-T6	-
E12	PH3050-014	HORIZONTAL GLAZING COVER INTERMEDIATE (VENT)	6063-T6	-
E13	PH3050-015	MALE MULLION	6005-T5	-
E14	PH3050-016	FEMALE MULLION	6005-T5	-
E15	FX345-007	INTERIOR COVER	-	-
E16	500Y-007	GLAZING BEAD	-	-
V1	V-003	MARINE GLAZING	VINYL	DUROMETER 60 SHORE 'A'
V3	V-013	VENT WSTP.	SPONGE NEOPRENE	-
V4	V-032	BULB GASKET	VINYL	DUROMETER 65 SHORE 'A'
V5	V-033A	MOLDED COMPRESSION GASKET	SPONGE NEOPRENE	-
V6	V-047	BULB GASKET	VINYL	DUROMETER 60 ±5
V8		Ø 0.187 SPLINE	-	-
V11	V-038	OFFSET GASKET	VINYL	DUROMETER 70 ±5 SHORE 'A'
S1		#14 X 1 1/4" LG. PH. PHL. SMS. POINT "B" ST/ST (ASSEMBLY)	-	-
S2		1/4-20 X 1 1/2" LG. HEXHEAD FULL THREAD (LEVELING SCREW)	-	-
-		-	-	-
S4		#12-24 X 1/2" LG. FH. MS	-	-
S5		#12 X 1/2" LG. ROUNDHEAD SMS. POINT "B" ST/ST (VENT)	-	-
S6		#10 X 3/8" LG. FH. SMS. ST/ST (HANDLE & KEEPER)	-	-
S7		#10 X 1/2" PH. SMS. POINT "B" ST/ST (HINGE SCREW)	-	-
S8		#6 X 1/2" LG. PH. SMS. ST/ST (ALUM. SNUBBER)	-	-
S9		#14 X 3/4" FH. SMS. ST/ST	-	-
H1	851-116-8046	26" PROJECTED HINGE	-	-
H2	851-112-8046	16" PROJECTED HINGE	-	-
H3	162-201	RIGHT HAND HANDLE	-	AT 8" FROM END
H4	162-202	LEFT HAND HANDLE	-	AT 8" FROM END
H5	208-043	KEEPER	-	AT LOCK LOCATIONS
H6		3" X 3" X 1/4"-1.720" LG. ALUM. ANGLE	6063-T6	-
H7		3" X 3" X 1/4"-1.125" LG. ALUM. ANGLE	6063-T6	-
H8	316	30" GH. VENT. P.I. & P.O.	-	-
H9	328SG	72" GH. VENT. P.O.	-	-
H10	716-10-8	KEYED LIMITED DEVICE	-	-
M1		1/8" X 1" X 4" LG. SETTING BLOCK	NEOPRENE	-
M2		1/4" X 1" X 4" LG. SETTING BLOCK	NEOPRENE	-
M3		3/4" X 3/4" X 4" LG. SETTING BLOCK	NEOPRENE	-
M4		1/8" X 1/2" SINGLE FACE TAPE V2100	-	-
M5		7/8" X 7/8" X 4" LG. SETTING BLOCK	NEOPRENE	-
M7	HC200-M07	SNUBBER	ALUMINUM	-
M8	P#12206	SNUBBER	NYLON	-
M9		1/2" X 3/4" WEEP ROD	-	-
M10		STRUCTURAL SILICONE BLACK	-	-
M11		3/8" X 3/16" DOUBLE FACE TAPE V2100	-	-
M12		1" X 1" X 1" LG. SETTING BLOCK	-	-
M13		5/16" X 5/16" SINGLE FACE TAPE	-	-
M14		1/4" X 1/4" SHIM	-	-
M15		1/4" X 2 3/4" ALUM. PLATE	6063-T6	-



PROJECT OUT



PROJECT IN

GLAZING DETAILS

1-5/16" OVERALL INSUL. LAM. GLASS

1/2" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

PERIMETER SEALANT:

SILICONE
DOWSIL 791
GE 2000

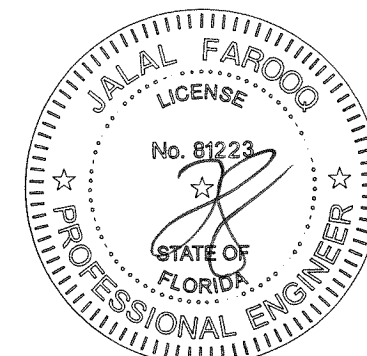
PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. **21-0225.01**

Expiration Date: **03/29/23**

By: *Manuel Fern*
Miami-Dade Product Control

FEB 22 2021



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

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	03.20.13		UPDATED TO 2010 FBC
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

revisions:

date: 04-04-09

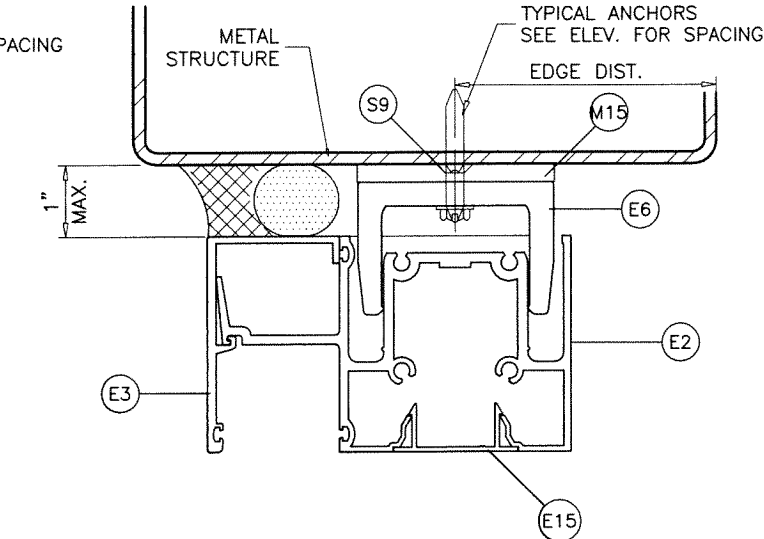
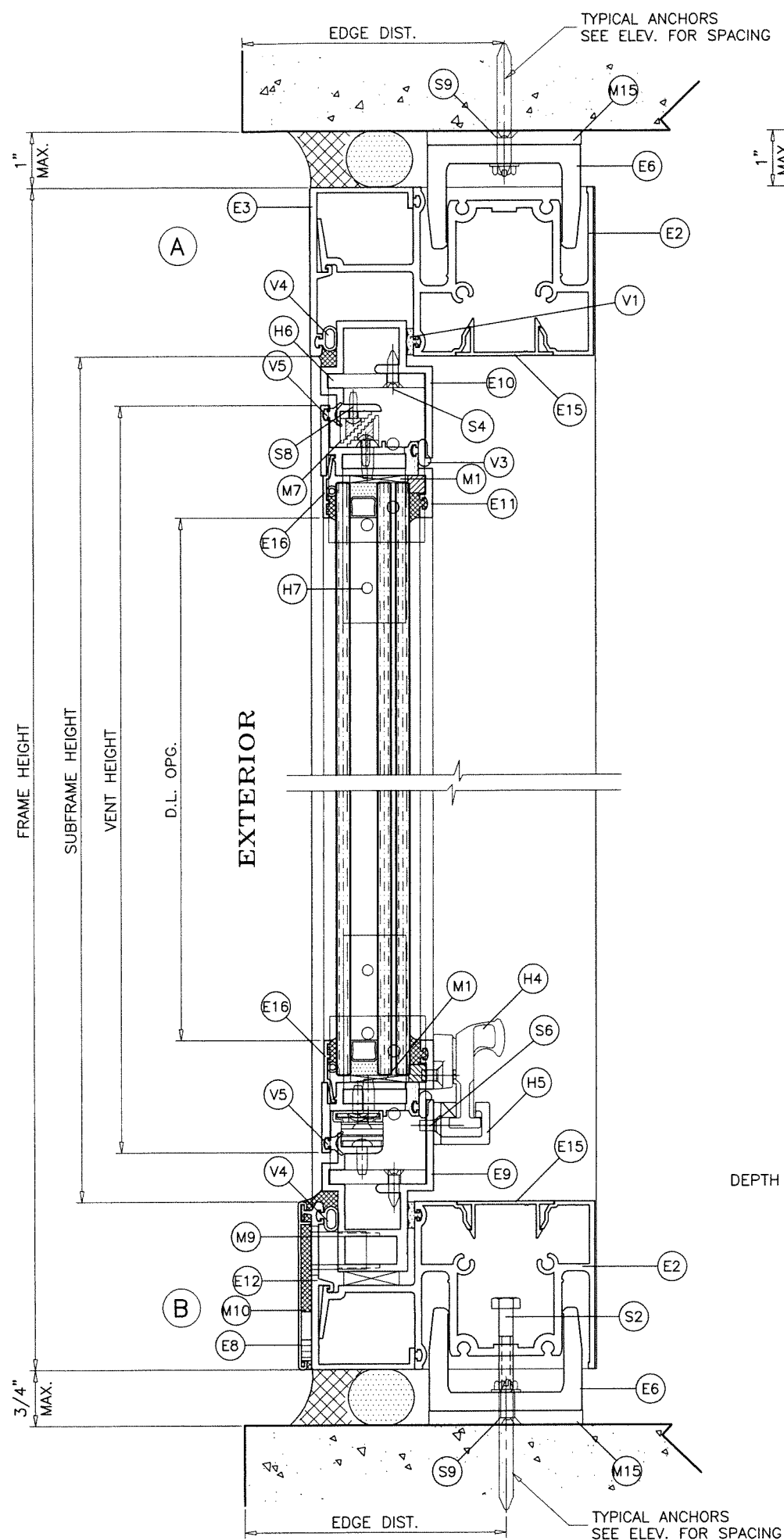
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W09-22

sheet 4 of 10



METAL STRUCTURES NOT BY 'TECNOGLASS'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)

DIRECTLY INTO CONCRETE

1-1/4" MIN. EMBED INTO CONCRETE

1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 KSI)

INTO METAL STRUCTURES

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T6 MIN.)

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

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

ANCHOR EDGE DISTANCES

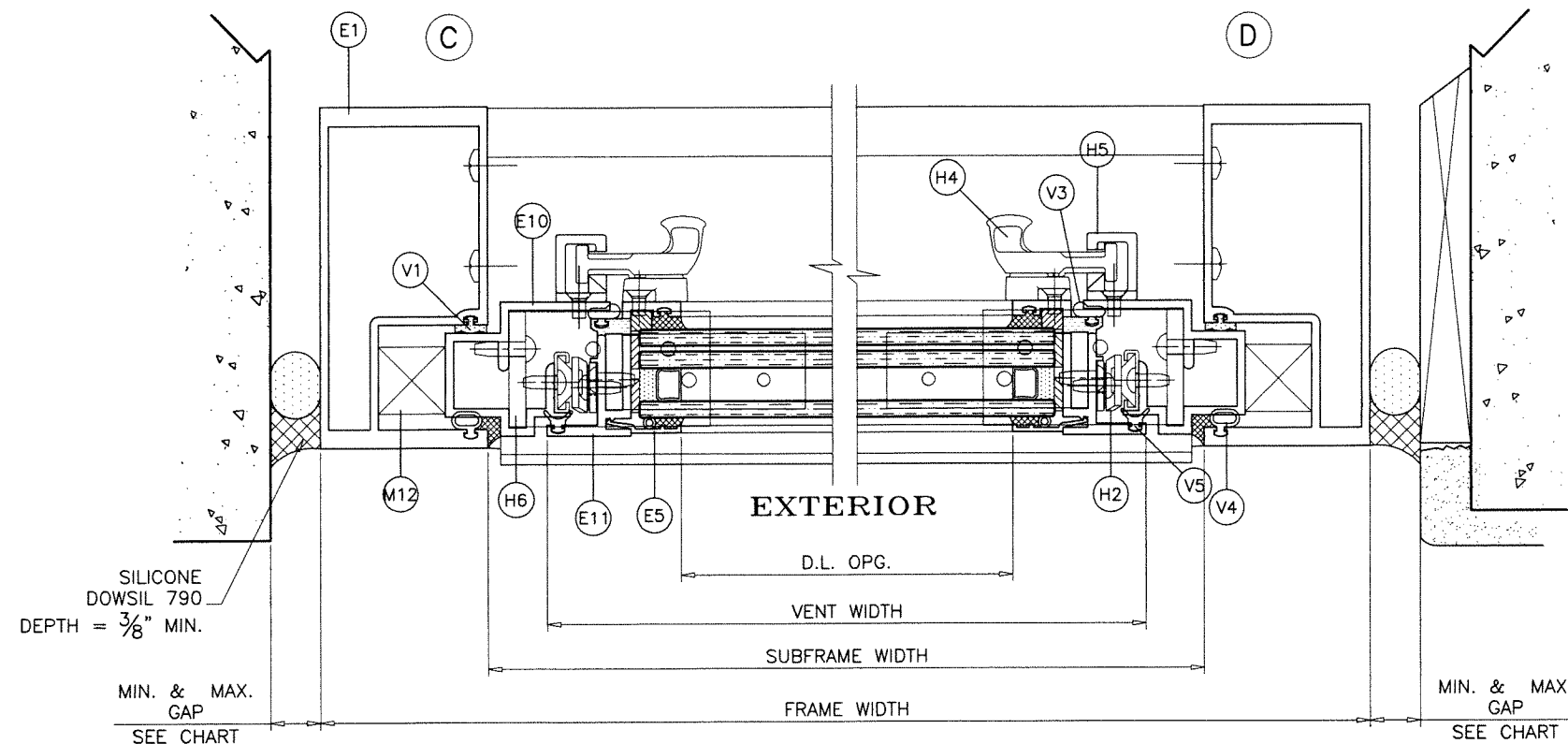
INTO CONCRETE = 2-1/2" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN.

SEALANTS:

ALL FRAME CORNERS AND MULLION SEAMS SEALED
WITH SILICONE.



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
UPTO 120"	3/8"	3/4"
156"	1/2"	3/4"
174"	5/8"	3/4"

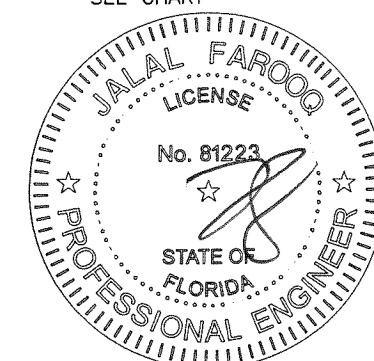
PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 21-0225.01

Expiration Date: 03/29/23

By: *Manuel Perez*
Miami-Dade Product Control

FEB 22 2021



PROJECT OUT WDW.

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	A	03.20.13		NO CHANGE THIS SHEET
	B	01.05.18		UPDATED TO 2017 FBC
	C	11.23.20		UPDATED TO 2020 FBC

date: 04-04-09
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

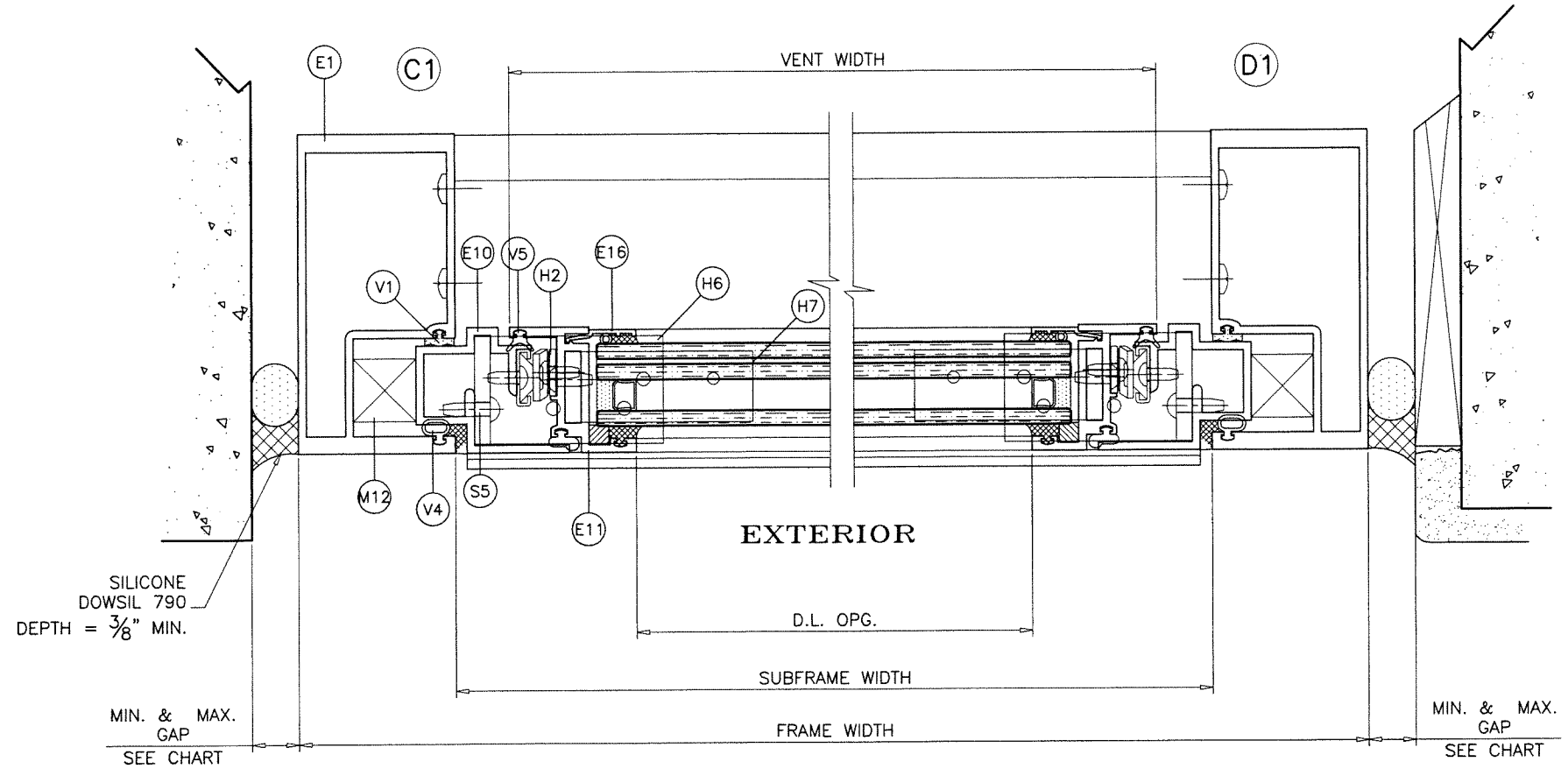
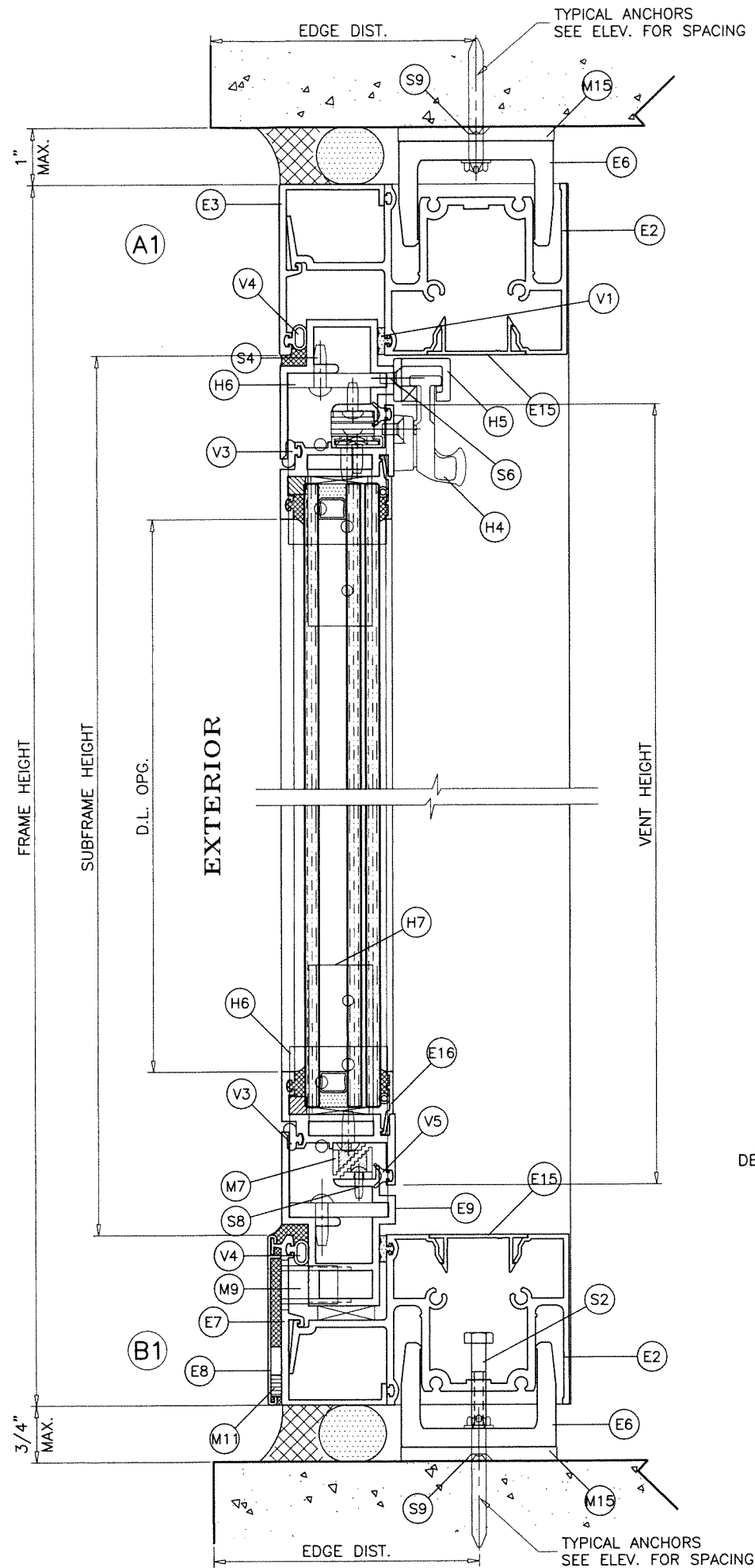
drawing no.

W09-22

sheet 5 of 10

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

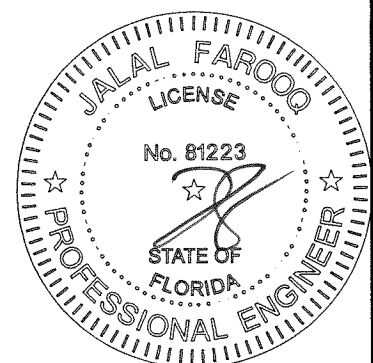
COMP-ANL\W09-22RC



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
UPTO 120"	3/8"	3/4"
156"	1/2"	3/4"
174"	5/8"	3/4"

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Perez*
Miami-Dade Product Control

FEB 22 2021



PROJECT IN WDW.

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

COMP-ANL\W09-22RC

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

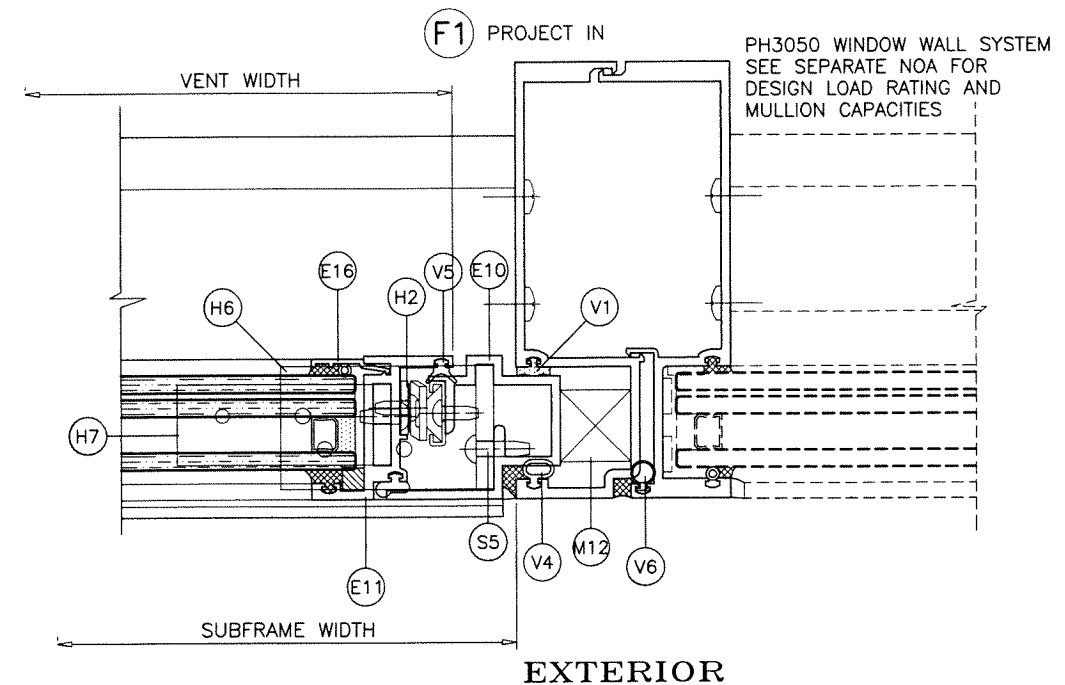
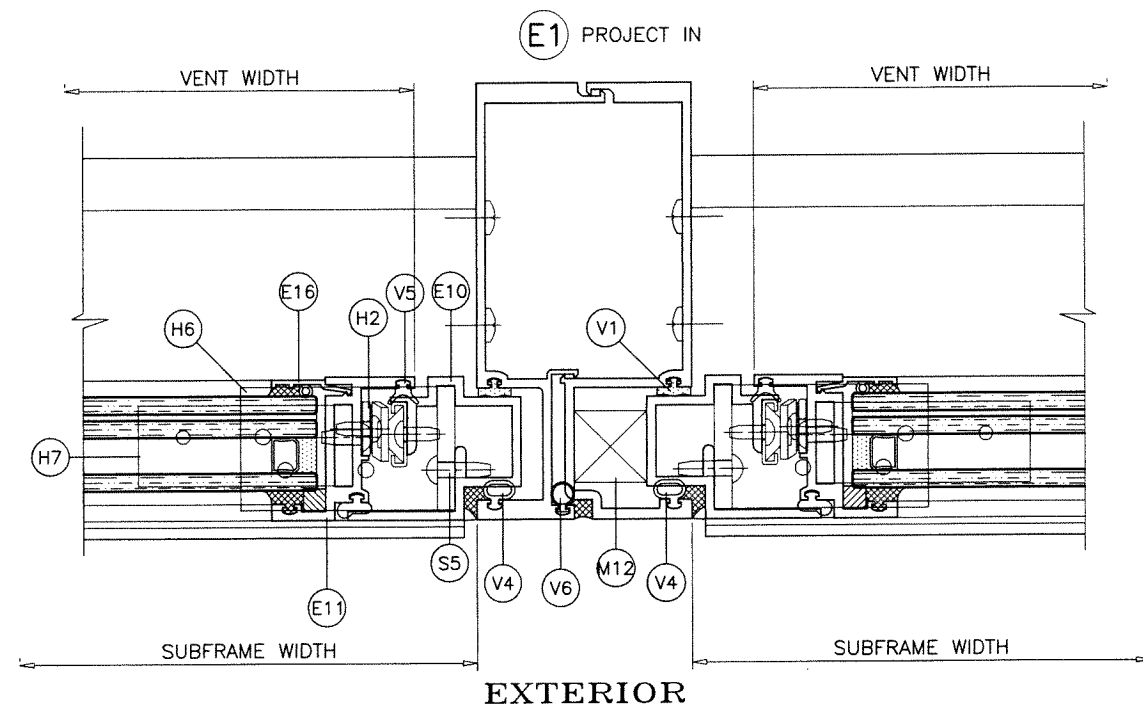
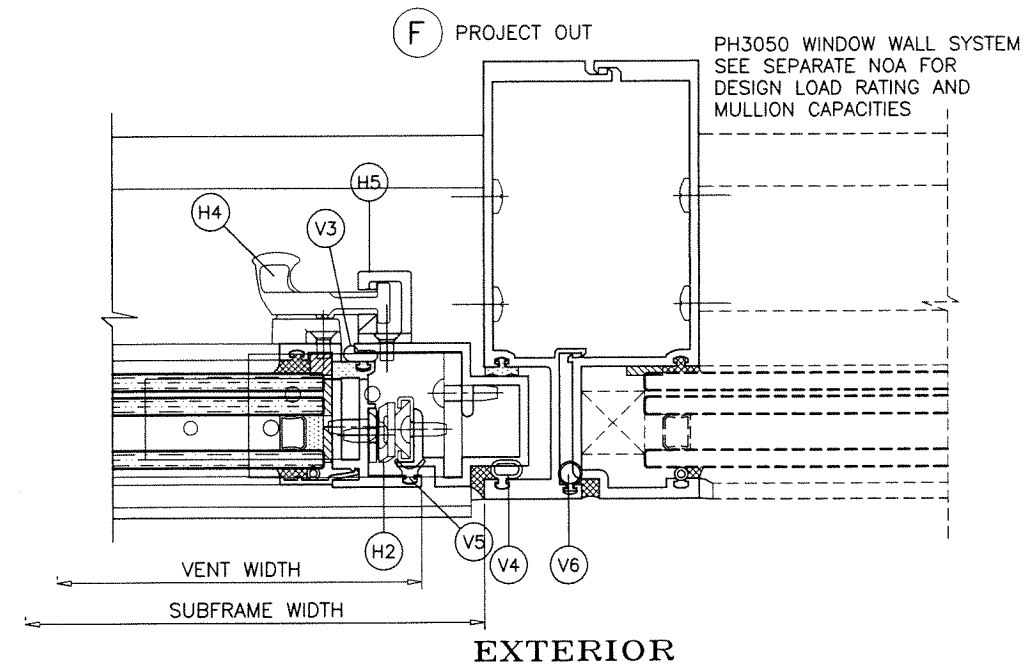
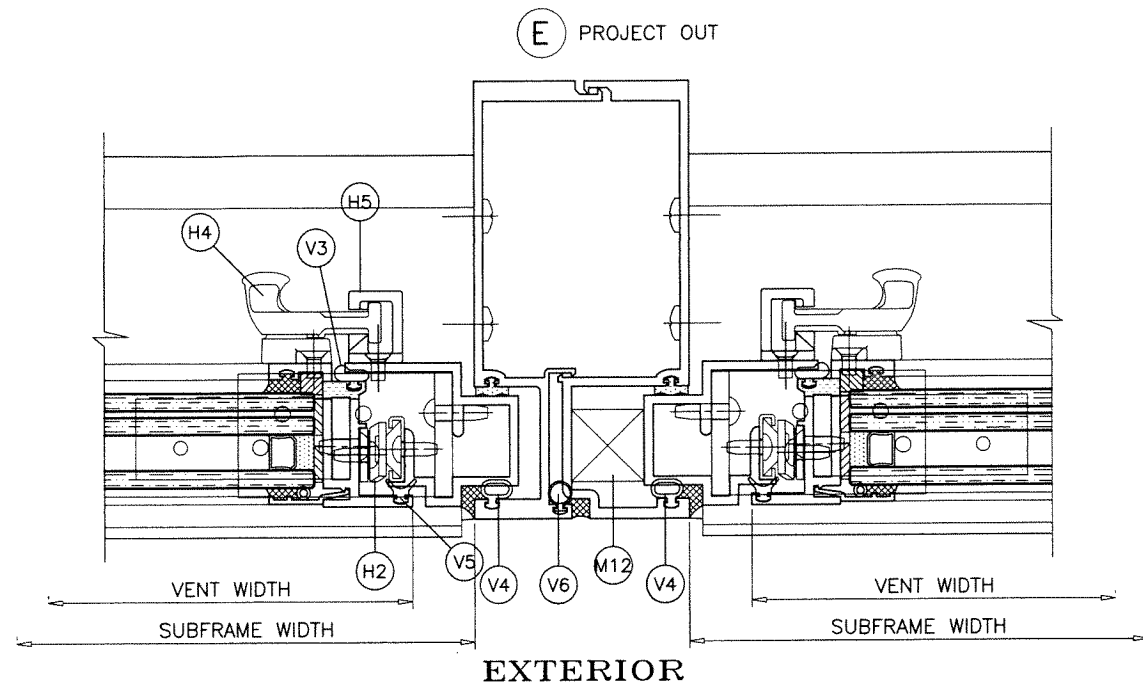
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

date: 04-04-09
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

revisions:

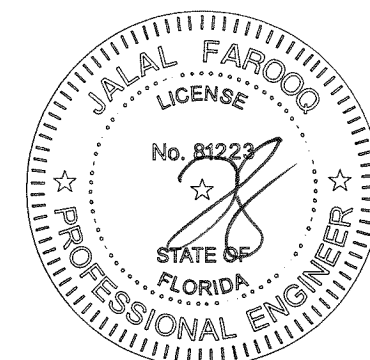
no	date	description
A	03.20.13	NO CHANGE THIS SHEET
B	01.05.18	UPDATED TO 2017 FBC
C	11.23.20	UPDATED TO 2020 FBC

drawing no.
W09-22
sheet 6 of 10



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Perez*
Miami-Dade Product Control

FEB 22 2021



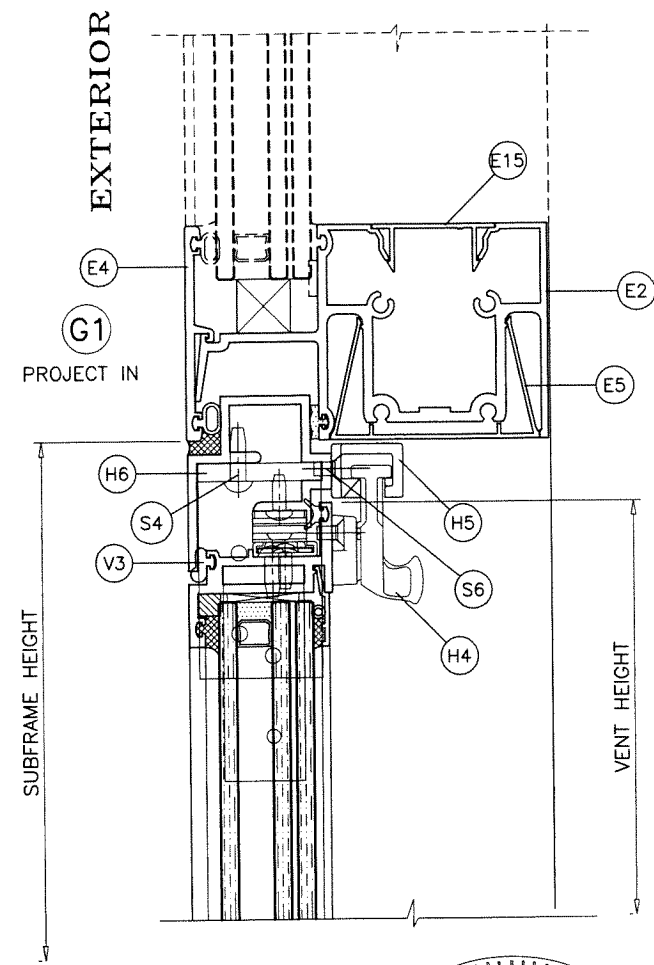
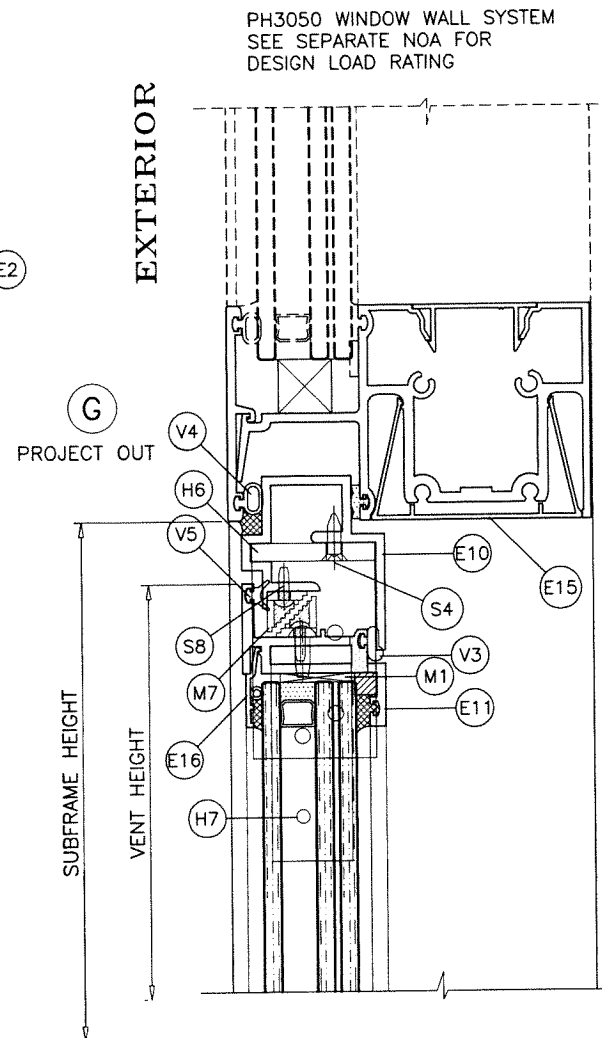
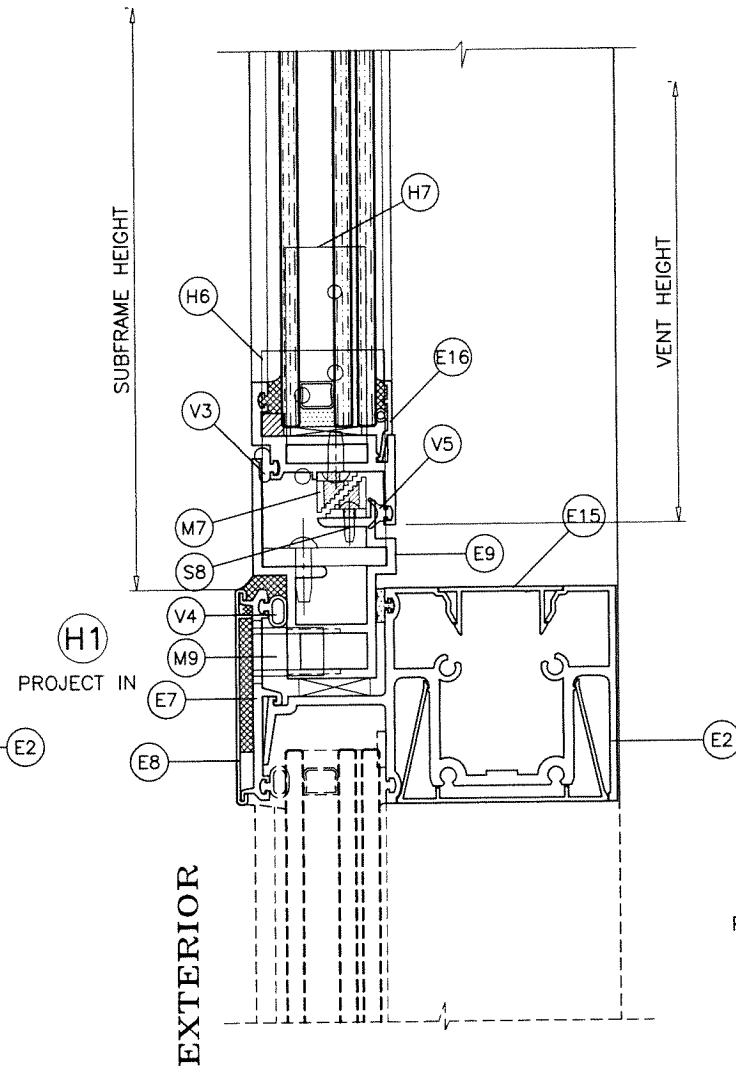
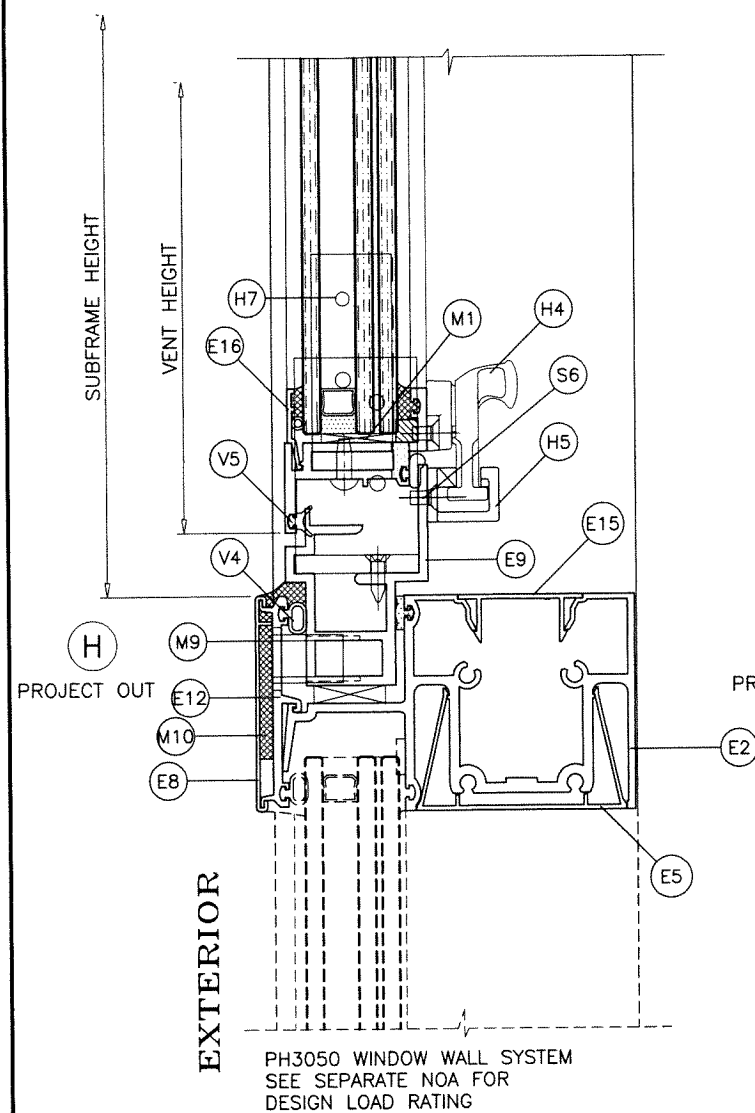
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	03.20.13		NO CHANGE THIS SHEET
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

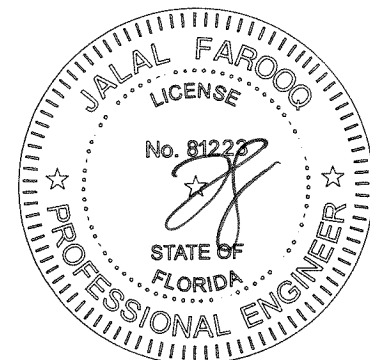
date:	04-04-09
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.
W09-22
sheet 7 of 10



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Ferrer*
Miami-Dade Product Control

FEB 22 2021



PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no	date	by	description
A	03.20.13		NO CHANGE THIS SHEET
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

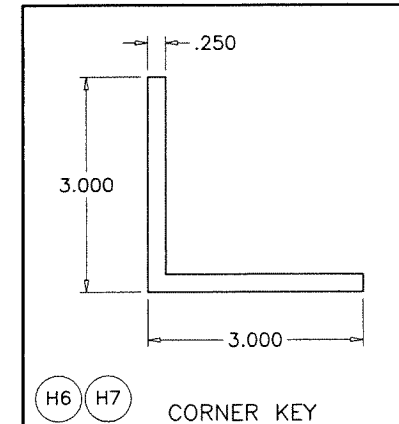
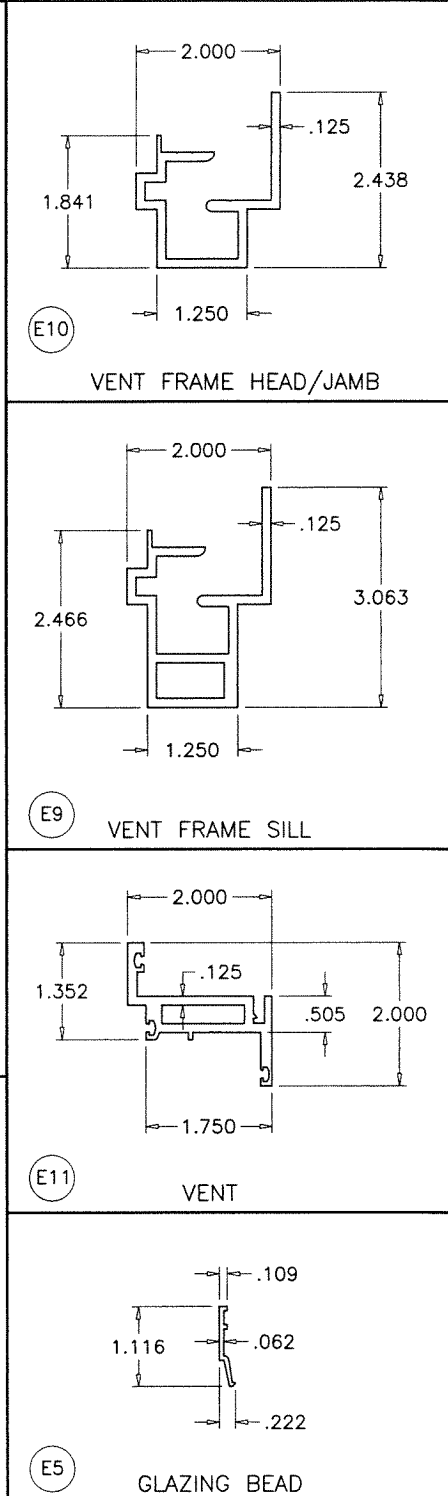
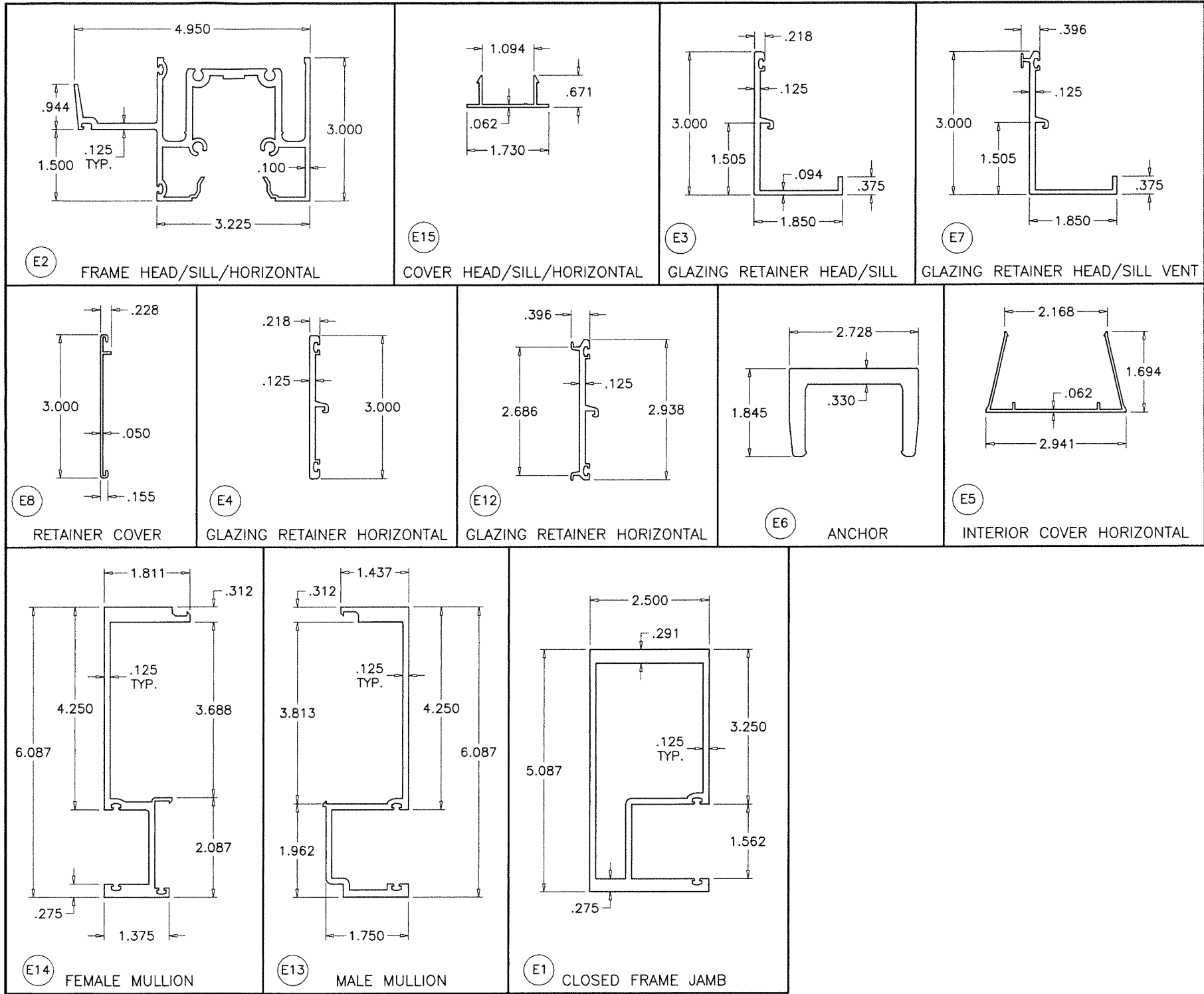
date: 04-04-09
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.

W09-22

sheet 8 of 10

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 353B)
COMP-ANL\W09-22RC



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

COMP-ANL W09-22RC

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

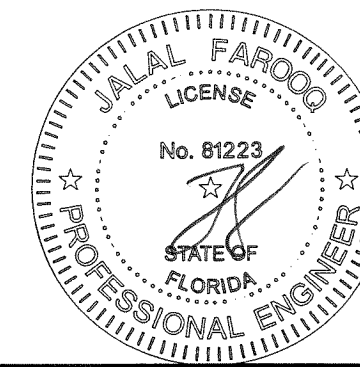
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

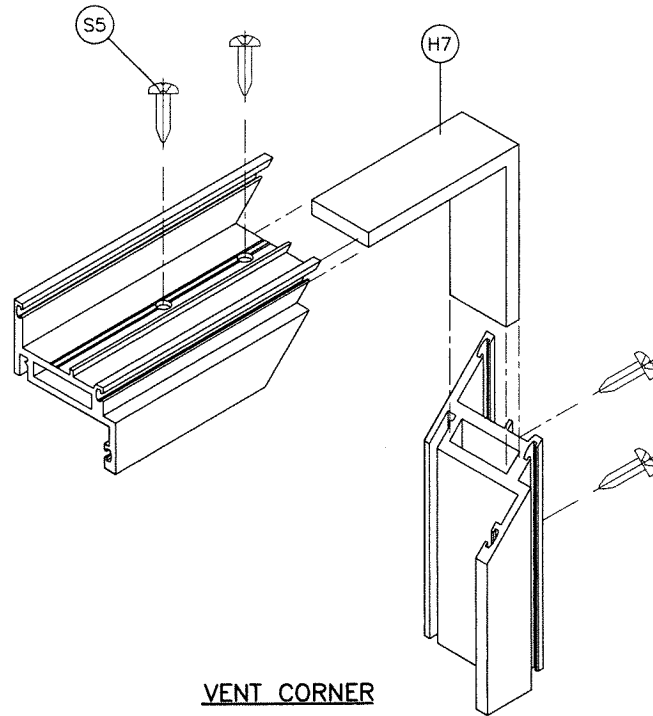
no	date	by	description
A	03.20.13		NO CHANGE THIS SHEET
B	01.05.18		UPDATED TO 2017 FBC
C	11.23.20		UPDATED TO 2020 FBC

date: 04-04-09
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

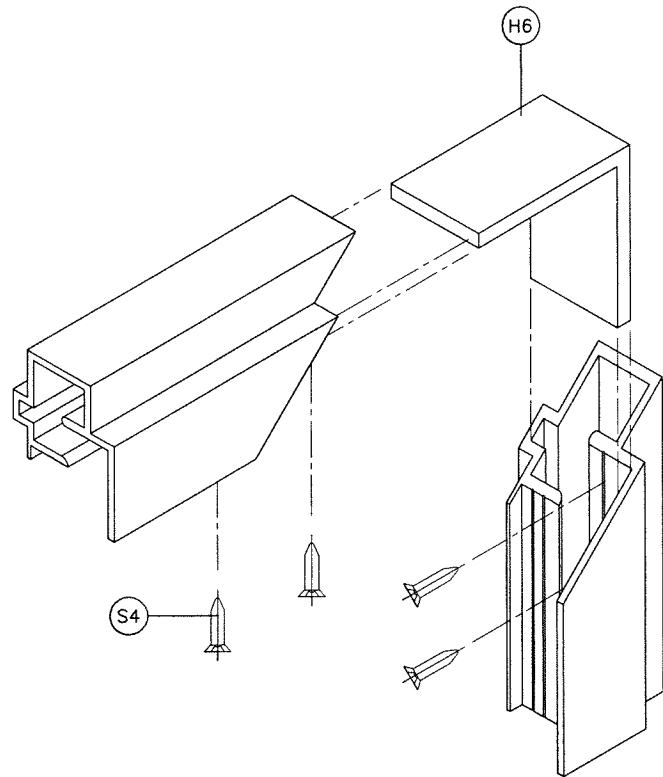
drawing no.
W09-22
sheet 9 of 10

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.01** FEB 22 2021
Expiration Date: **03/29/23**
By: *Manuel Perez*
Miami-Dade Product Control

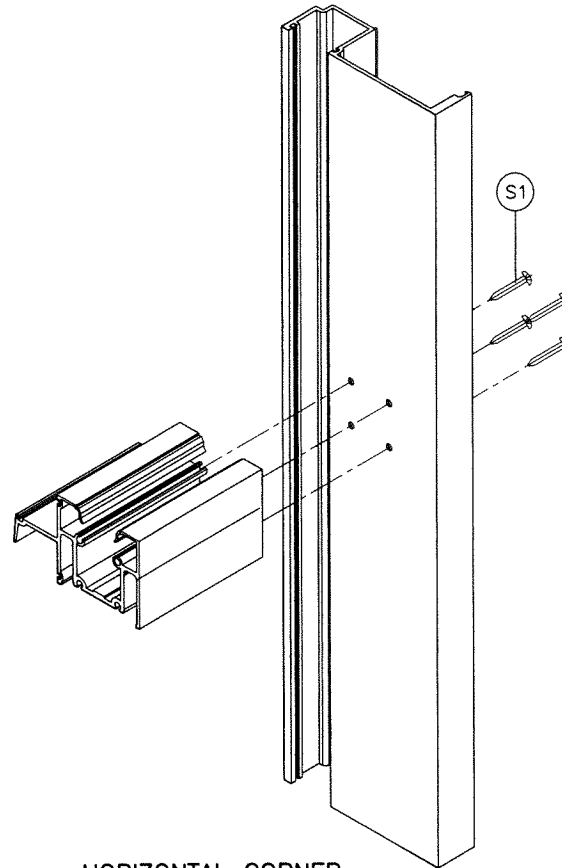




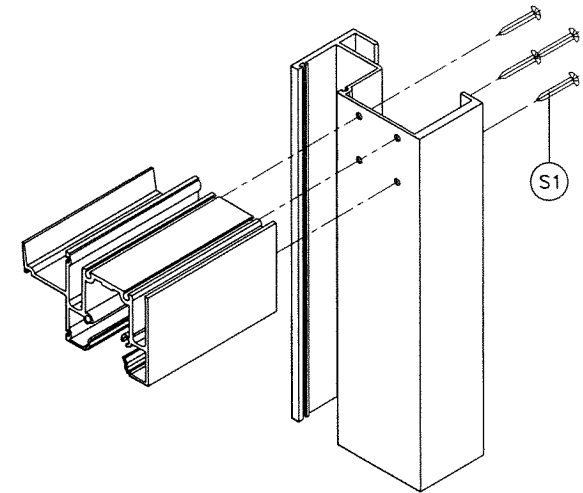
VENT CORNER



VENT FRAME CORNER



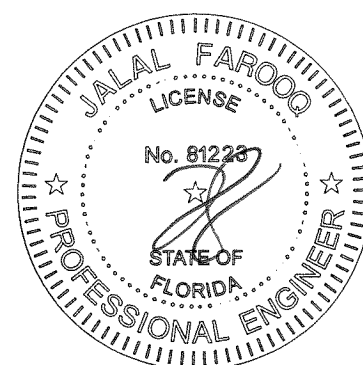
HORIZONTAL CORNER



FRAME HEAD/SILL CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0225.01**
Expiration Date: **03/29/23**
By: *Manuel Perez*
Miami-Dade Product Control

FEB 22 2021



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

a f c
COMP-ANL\W09-22RC

PH3050 ALUM PROJECT OUT/IN WDW. (L.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

W09-22

revisions:	
no	description
A	03.20.13 NO CHANGE THIS SHEET
B	01.05.18 UPDATED TO 2017 FBC
C	11.23.20 UPDATED TO 2020 FBC

date: 04-04-09	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
----------------	------------------	---------------	----------

drawing no.

W09-22

sheet 10 of 10