MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI–DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175–2474
T (786) 315–2590 F (786) 315–2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Tecnoglass, LLC
5220 NW 72nd Avenue, Bay No. 4
Miami, 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 "2400 ST" Aluminum Sliding Glass Door – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W01–75**, titled "Series–2400ST Alum. Sld. Glass Door (L.M.I.)", sheets 01, 02, 03, 3.1, 3.2, 04 through 09 of 11, dated 11/02/01 with revision "**J**", dated 08/01/14, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, 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.

Limitations:

1. See Design Pressure in sheet 2. See anchors capacities in sheet 3 & 3.1, lower capacity shall control.
2. Maximum load bearing shim not to exceed ½" at head, ¾" at sill (high strength poured & hardened grout) per sheet 4 and $^{5}/_{8}$" at jambs per sheet 5.

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. 12–0223.19** and consists of this page 1, evidence pages E–1, E–2 and E–3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**

MIAMI-DADE COUNTY APPROVED

J. Gascon 8/28/14

NOA No. 14–0807.16
Expiration Date: February 07, 2017
Approval Date: September 04, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under previous NOA's No.'s 10–1118.02, 06–0327.06 and 01–0927.05)
2. Drawing No. **W01–75**, titled "Series–2400ST Alum. Sld. Glass Door (L.M.I.)", sheets 01, 02, 03, 3.1, 3.2, 04 through 09 of 11, dated 08/17/01 with revision "**J**" dated 08/01/14, prepared by Al–Farooq Corporation, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94
   3) Water Resistance Test, per FBC, TAS 202–94
   4) Large Missile Impact Test per FBC, TAS 201–94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203–94
   6) Forced Entry Test, Type "A" sliding door, Grade 10, per ASTM F 842–04 and per FBC 2411 3.2.1, TAS 202–94

   along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–6096**, dated 07/16/10, signed and sealed by Jorge A. Causo, P. E.
   (Submitted under previous NOA No. 10–1118.02)
2. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94,
   2) Small Missile Impact Test per FBC, TAS 201–94,
   3) Cyclic Wind Pressure Loading per FBC, TAS 203–94,

   along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–4615**, dated 06/16/05, signed and sealed by Edmundo J. Largaespada, P. E.
   (Submitted under NOA No. 06–0327.06)
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, Type "A" sliding door, Grade 10, per ASTM F 842–04 and per FBC 2411 3.2.1, TAS 202–94

   along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–01074**, dated 6/25/01, signed and sealed by Luis Figueredo, P. E.
   (Submitted under NOA No. 01–0927.05)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0807.16
Expiration Date: February 07, 2017
Approval Date: September 04, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by Al–Farooq Corporation, dated 11/11/10, signed and sealed by Javad Ahmad, P. E.
   (Submitted under previous NOA No. 10–1118.02)
2. **Glazing complies with ASTM E1300–04**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11–0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 08/25/11, expiring on 01/14/17.

F. STATEMENTS

1. Statement letter of no financial interest, conformance and compliance with the **FBC–2010**, dated 08/05/14, signed and sealed by Javad Ahmad, P. E.
2. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC.
3. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12–0223.19**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
4. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State.
5. Statement letter of conformance to and compliance with the **FBC–2007** and **FBC–2010**, dated 02/13/12, signed and sealed by Javad Ahmad, P. E.
   (Submitted under previous NOA No. 12–0223.19)
6. Statement letter of no financial interest, dated 02/13/12, signed and sealed by Javad Ahmad, P. E. ***(Submitted under previous NOA No. 12–0223.19)***
7. Laboratory compliance letters for Test Report No. **FTL–6096**, issued by Fenestration Testing Laboratory, Inc., dated 07/16/10, signed and sealed by Jorge A. Causo, P. E.
   (Submitted under previous NOA No. 10–1118.02)
8. Proposal issued by the Product Control Section, dated 06/01/09, signed by Ishaq Chanda, P.E. ***(Submitted under previous NOA No. 10–1118.02)***
9. Laboratory compliance letters for Test Report No. **FTL–4615**, issued by Fenestration Testing Laboratory, Inc., dated 06/16/05, signed and sealed by Edmundo Largaespada, P. E.
   (Submitted under previous NOA No. 06–0327.06)

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0807.16
Expiration Date: February 07, 2017
Approval Date: September 04, 2014

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

10. Proposal issued by the Product Control Section, dated 02/07/05, signed by Ishaq Chanda, P.E.
(Submitted under previous NOA No. 06–0327.06)
11. Laboratory compliance letters for Test Report No. **FTL–1074**, issued by Fenestration Testing Laboratory, Inc., dated 6/25/01, signed and sealed by Luis Figueredo, P. E.
(Submitted under previous NOA No. 01–0927.05)

G. OTHERS

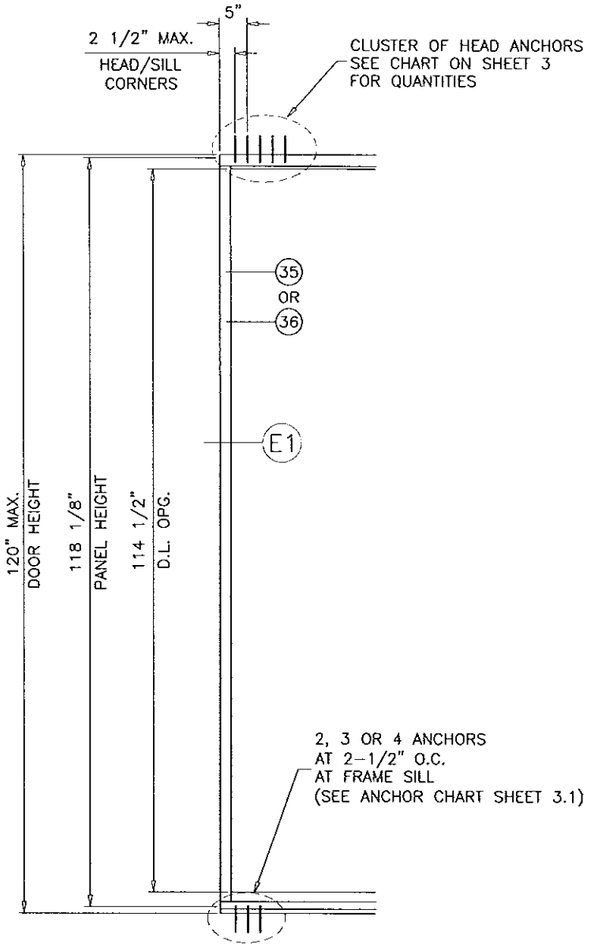
1. Notice of Acceptance No. **12–0223.19**, issued to R. C. Aluminum Industries, Inc. for their Series "**2400ST Aluminum Sliding Glass Door – L.M.I.**", approved on 05/10/12 and expiring on 02/07/17.

Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 14–0807.16
Expiration Date: February 07, 2017
Approval Date: September 04, 2014

DAYLITE OPENINGS:

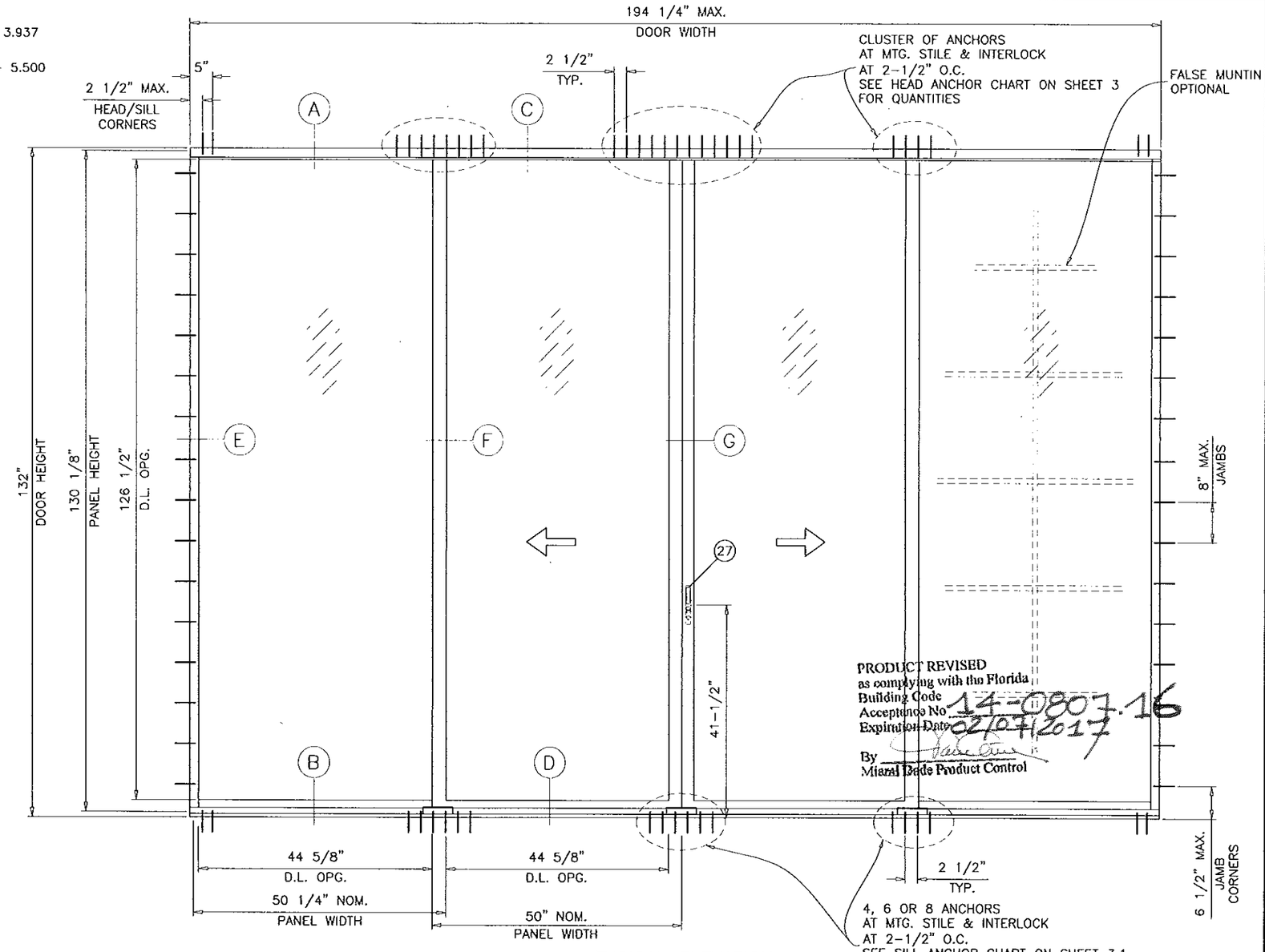
DLO WIDTH = $\frac{\text{FRAME WIDTH}}{\text{NO. OF PANELS}} - 3.937$

DLO HEIGHT = FRAME HEIGHT − 5.500



JAMB OPTION W/O ANCHORS

(120" MAX. DOOR HEIGHT USING ITEMS #35 OR #36)



TYPICAL ELEVATION

TESTED UNIT (OXXO)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 14-0807.16
Expiration Date 02/01/2017
By
Miami-Dade Product Control

SERIES−2400ST ALUMINUM SLIDING GLASS DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

USING CHART ON SHEET 3 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS (HEAD OR SILL) WILL APPLY TO ENTIRE SYSTEM.

DOORS MUST COMPLY WITH EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

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

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 27 2014

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W01-75RC

SERIES−2400ST ALUM SLD. GLASS DOOR (L.M.I.)

TECNOGLASS, LLC
5220 N.W. 72 AVE.
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:			
no	date	by	description
F	06.03.09		UPDATED FOR 2007 FBC
G	08.05.10		GENERAL REVISION
H	03.16.11		REV PER BNC COMMENTS
I	02.13.12		UPDATED TO 2010 FBC
J	08.01.14		MANUF. NAME REV.

date: 11-02-01
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

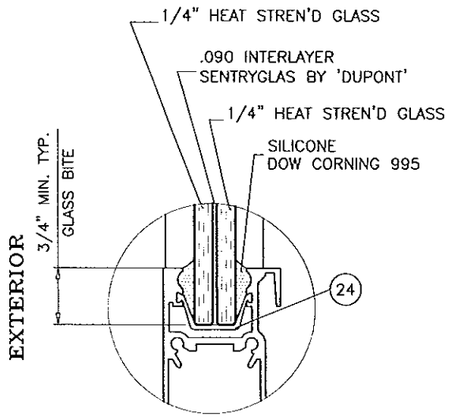
drawing no.
W01−75

sheet 1 of 9

DESIGN LOAD CAPACITY – PSF		
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	9/16" GLASS EXT.(+)/INT.(–)
30	96	131.0
36		131.0
42		131.0
48		131.0
54		131.0
60		131.0
30	102	131.0
36		131.0
42		131.0
48		131.0
54		131.0
30	108	131.0
36		131.0
42		131.0
48		131.0
30	114	131.0
36		131.0
42		131.0
48		131.0
30	119–1/2	131.0
36		131.0
42		131.0
48		128.7
30	120	120.0
36		120.0
42		120.0
48		120.0
30	126	120.0
36		120.0
42		120.0
48		120.0
30	132	120.0
36		120.0
42		120.0
48		120.0

MAX. DOOR UNIT WIDTHS TO BE LIMITED TO 194–1/4 IN. TO BE USED WITH SINGLE NOM. PANEL WIDTHS PER ABOVE CHART

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	2400ST–038	1	FRAME HEAD	6063–T6/6005–T5	–
1A	2400ST–018	1	ALT. FRAME HEAD	6063–T6	–
2	2400ST–039	1	FRAME SILL	6005–T5	–
2A	2400ST–010	1	ALT. FRAME SILL	6005–T5	–
3	2400ST–042	2	FRAME JAMB	6063–T6	–
3A	2400ST–001	2	ALT. FRAME JAMB	6063–T6	–
4	2400ST–008	1/MOV. PANEL	MOVING HORIZ. BOTT. RAIL	6063–T6	–
5	2400ST–009	1/FIX. PANEL	FIXED HORIZ. BOTT. RAIL	6063–T6	–
6	2400ST–006	1/MOV. PANEL	TOP MOVING RAIL	6063–T6	–
7	2400ST–007	1/FIX. PANEL	TOP FIXED RAIL	6063–T6	–
8	2400ST–004	1/FIX. PANEL	JAMB FIXED STILE	6063–T6	–
9	2400ST–002	1	JAMB FIX. STILE/LOCK STILE	6063–T6	–
10	2400ST–037	1/ PANEL	INTERLOCK	6005–T5	–
11	2400ST–005	1	MEETING STILE	6005–T5	–
12	2400ST–012	1	THRESHOLD FILLING TRACK (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063–T6	–
13	2400ST–011	–	SILL TRACK ANCHOR	6005–T5	–
13A	–	4/ CLIP	1/4–20 X 3/4" LG. SOCKET HEAD CAP SCREWS	ST/ST	–
14	2400ST–019	1	HEAD ADAPTER (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063–T6	–
15	2400ST–031	2	SILL TRACK PLATE (5–1/4" X 1/4" X 4" LONG)	ALUMINUM	AT EACH END
15A	2400ST–031	3	SILL TRACK PLATE (5–1/4" X 1/4" X 9" LONG)	ALUMINUM	AT INTERLOCK/ASTRAGAL STILES
16	2400ST–032	–	MTG. RAIL THRESHOLD SEAL	6063–T5	6" LONG
17	#10 X 1/2"	2	WEATHERSTRIP FASTENERS	–	–
18	V–027	–	BULB W'STRIPPING	VINYL	FP–712 PROTOTYPE
19	WV–2310	–	FLAP WEATHER SEAL	VINYL	WIBORG
20	V–026	–	BULB W'STRIPPING	VINYL	FP–198 PROTOTYPE
21	W31265NK	–	FIN PILE W'STRIPPING	–	ULTRAFAB
22	Q250X270	–	Q–LON W'STRIPPING	–	SCHLEGEL
24	V–020	AS REQD.	GLAZING GASKET (9/16" IMPACT GLASS), DUROMETER 75±5 SHORE A	VINYL	WV–1429 WIBORG
26	100–7101	2/MOV. PANEL	TANDEM WHEEL ASSEMBLY	–	WORLD IND. PRODUCTS INTL.
27	10–0030XX	1	STANDARD SLIDE SET LOCK (3 PLY METALLIC)	–	WORLD IND. PRODUCTS INTL.
28	–	1	LOCK KEEPER	–	–
29	–	–	DOOR BUMPER	–	1" DIA. X 3/4" LONG
30	2400ST–040	AS REQD.	INSIDE SCREEN TRACK	6063–T6	–
31	#10 X 1–1/2"	2/ PANEL	PANEL ASSBY. SCREWS	ST/ST	–
32	#10 X 1"	2/ CORNER	FRAME ASSBY. SCREWS	–	–
33	–	2	4–1/4" X .060" X 6" LONG PLATE	ALUMINUM	AT FRAME JAMB BOTTOM
34	–	–	5/8" X 1–1/2" X .1" PLATE @ LOCK STILE BOTTOM	ALUMINUM	FASTENED W/ #8 X 3/8" FH SMS
35	2400ST–071	1	FREE STANDING JAMB (FIX. SIDE)	6005–T5	–
36	2400ST–072	1	FREE STANDING JAMB (OPERABLE SIDE)	6005–T5	–



GLAZING DETAIL

SEALANTS:

ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.

LOCKS:

SURFACE MOUNT THREE PLY HOOK LOCK BY 'WORLD INDUSTRIAL PRODUCTS' AT 41–1/2" FROM BOTTOM WITH KEEPERS AT LOCK POSITION.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–04 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0807.16
Expiration Date 02/07/2017
By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
AUG 28 2014

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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TEL. (305) 264-8100 FAX. (305) 262-6978

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SERIES–2400ST ALUM SLD. GLASS DOOR (L.M.I.)

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J	08.01.14		MANUF. NAME REV.

date: 11–02–01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W01–75

sheet 2 of 9

DESIGN LOAD CAPACITY - PSF (HEAD ANCHORS)

PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	ANCHORS TYPE A — 1/2" MAX. SHIM SPACE			ANCHORS TYPE B — 1/4" MAX. SHIM SPACE		ANCHORS TYPE B — 3/8" MAX. SHIM SPACE		ANCHORS TYPE B — 1/2" MAX. SHIM SPACE			ANCHORS TYPE C — 1/4" MAX. SHIM SPACE			ANCHORS TYPE C — 3/8" MAX. SHIM SPACE			ANCHORS TYPE C — 1/2" MAX. SHIM SPACE		
		2 ANCHORS AT FREE STAND. JAMB 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB 8 ANCHORS AT MTG. STILE ENDS	2 ANCHORS AT FREE STAND. JAMB 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	2 ANCHORS AT FREE STAND. JAMB 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	2 ANCHORS AT FREE STAND. JAMB 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB 8 ANCHORS AT MTG. STILE ENDS	2 ANCHORS AT FREE STAND. JAMB 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB 8 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB 6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB 8 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT FREE STAND. JAMB 10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB 8 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT FREE STAND. JAMB 10 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT FREE STAND. JAMB 12 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)	EXT. (+) INT. (−)
30	96	124.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
36		103.3	131.0	131.0	131.0	131.0	131.0	131.0	126.4	131.0	131.0	131.0	131.0	131.0	127.3	131.0	131.0	131.0	131.0	131.0
42		88.6	131.0	131.0	131.0	131.0	131.0	131.0	108.4	131.0	131.0	112.9	131.0	131.0	109.1	131.0	131.0	119.0	131.0	131.0
48		77.1	115.6	131.0	120.8	131.0	116.0	131.0	94.8	131.0	131.0	98.8	131.0	131.0	95.5	127.4	131.0	104.1	130.2	131.0
54		68.9	103.3	131.0	107.3	131.0	103.1	131.0	84.3	126.4	131.0	87.8	131.0	131.0	84.9	113.2	131.0	92.6	115.7	131.0
60		62.0	93.0	124.0	96.6	131.0	92.8	131.0	75.9	113.8	131.0	79.0	118.5	131.0	76.4	101.9	127.4	83.3	104.2	125.0
30	102	116.7	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
36		97.3	131.0	131.0	131.0	131.0	131.0	131.0	119.0	131.0	131.0	123.9	131.0	131.0	119.8	131.0	131.0	130.7	131.0	131.0
42		83.4	125.0	131.0	129.9	131.0	124.8	131.0	102.0	131.0	131.0	106.2	131.0	131.0	102.7	131.0	131.0	112.0	131.0	131.0
48		72.6	108.8	131.0	113.6	131.0	109.2	131.0	89.2	131.0	131.0	92.9	131.0	131.0	89.9	119.9	131.0	98.0	122.5	131.0
54		64.8	97.3	129.7	101.0	131.0	97.0	131.0	79.3	119.0	131.0	82.6	123.9	131.0	79.9	106.6	131.0	87.1	108.9	130.7
30	108	110.2	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0
36		91.9	131.0	131.0	131.0	131.0	131.0	131.0	112.4	131.0	131.0	117.0	131.0	131.0	113.2	131.0	131.0	123.4	131.0	131.0
42		78.7	118.1	131.0	122.7	131.0	117.8	131.0	96.3	131.0	131.0	100.3	131.0	131.0	97.0	129.4	131.0	105.8	131.0	131.0
48		68.5	102.8	131.0	107.3	131.0	103.1	131.0	84.3	126.4	131.0	87.8	131.0	131.0	84.9	113.2	131.0	92.6	115.7	131.0
30	114	104.4	131.0	131.0	131.0	131.0	131.0	131.0	127.7	131.0	131.0	131.0	131.0	131.0	128.7	131.0	131.0	131.0	131.0	131.0
36		87.0	130.5	131.0	131.0	131.0	131.0	131.0	106.5	131.0	131.0	110.9	131.0	131.0	107.2	131.0	131.0	116.9	131.0	131.0
42		74.6	111.9	131.0	116.2	131.0	111.6	131.0	91.2	131.0	131.0	95.0	131.0	131.0	91.9	122.6	131.0	100.2	125.3	131.0
48		64.9	97.4	129.9	101.7	131.0	97.7	131.0	79.8	119.8	131.0	83.2	124.7	131.0	80.4	107.3	131.0	87.7	109.6	131.0
30	119−1/2	99.6	131.0	131.0	131.0	131.0	131.0	131.0	121.9	131.0	131.0	126.9	131.0	131.0	122.8	131.0	131.0	131.0	131.0	131.0
36		83.0	124.5	131.0	129.3	131.0	124.3	131.0	101.6	131.0	131.0	105.8	131.0	131.0	102.3	131.0	131.0	111.5	131.0	131.0
42		71.2	106.7	131.0	110.9	131.0	106.5	131.0	87.0	130.6	131.0	90.7	131.0	131.0	87.7	116.9	131.0	95.6	119.5	131.0
48		61.9	92.9	123.9	97.0	131.0	93.2	131.0	76.2	114.3	131.0	79.3	119.0	131.0	76.7	102.3	127.9	83.6	104.6	125.5
30	120	99.2	131.0	131.0	131.0	131.0	131.0	131.0	121.4	131.0	131.0	126.4	131.0	131.0	122.2	131.0	131.0	131.0	131.0	131.0
36		82.7	124.0	131.0	128.8	131.0	123.7	131.0	101.1	131.0	131.0	105.3	131.0	131.0	101.9	131.0	131.0	111.1	131.0	131.0
42		70.9	106.3	131.0	110.4	131.0	106.1	131.0	86.7	130.1	131.0	90.3	131.0	131.0	87.3	116.5	131.0	95.2	119.0	131.0
48		61.7	92.5	123.4	96.6	131.0	92.8	131.0	75.9	113.8	131.0	79.0	118.5	131.0	76.4	101.9	127.4	83.3	104.2	125.0
30	126	94.5	131.0	131.0	131.0	131.0	131.0	131.0	115.6	131.0	131.0	120.4	131.0	131.0	116.4	131.0	131.0	126.9	131.0	131.0
36		78.7	118.1	131.0	122.7	131.0	117.8	131.0	96.3	131.0	131.0	100.3	131.0	131.0	97.0	129.4	131.0	105.8	131.0	131.0
42		67.5	101.2	131.0	105.1	131.0	101.0	131.0	82.6	123.9	131.0	86.0	129.0	131.0	83.2	110.9	131.0	90.7	113.4	131.0
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42		64.4	96.6	128.8	100.4	131.0	96.4	131.0	78.8	118.2	131.0	82.1	123.1	131.0	79.4	105.9	131.0	86.5	108.2	129.8
48		56.1	84.1	112.1	87.8	131.0	84.4	126.6	69.0	103.5	131.0	71.8	107.7	131.0	69.5	92.6	115.8	75.7	94.7	113.6

NOTE:
SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD OR SILL ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-0807.16
Expiration Date 6210H2017
By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 27 2014

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W01-75RC

SERIES-2400ST ALUM SLD. GLASS DOOR (L.M.I.)

TECNOGLASS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:

no	date	by	description
F	06.03.09		UPDATED FOR 2007 FBC
G	08.05.10		GENERAL REVISION
H	03.16.11		REV PER BNC COMMENTS
I	02.13.12		NO CHANGE THIS SHEET
J	08.01.14		MANUF. NAME REV.

date: 11-02-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W01-75

sheet 3 of 9

DESIGN LOAD CAPACITY – PSF SILL ANCHORS				
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	2 ANCHORS AT FREE STAND. JAMB / 4 ANCHORS AT MTG. STILE ENDS	3 ANCHORS AT FREE STAND. JAMB / 6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT FREE STAND. JAMB / 8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	96	131.0	131.0	131.0
36		130.3	131.0	131.0
42		111.7	131.0	131.0
48		97.8	131.0	131.0
54		86.9	130.3	131.0
60		78.2	117.3	131.0
30	102	131.0	131.0	131.0
36		122.7	131.0	131.0
42		105.1	131.0	131.0
48		92.0	131.0	131.0
54		81.8	122.7	131.0
30	108	131.0	131.0	131.0
36		115.9	131.0	131.0
42		99.3	131.0	131.0
48		86.9	130.3	131.0
30	114	131.0	131.0	131.0
36		109.8	131.0	131.0
42		94.1	131.0	131.0
48		82.3	123.5	131.0
30	119–1/2	125.6	131.0	131.0
36		104.7	131.0	131.0
42		89.7	131.0	131.0
48		78.5	117.8	131.0
30	120	125.1	131.0	131.0
36		104.3	131.0	131.0
42		89.4	131.0	131.0
48		78.2	117.3	131.0
30	126	119.2	131.0	131.0
36		99.3	131.0	131.0
42		85.1	127.7	131.0
48		74.5	111.7	131.0
30	132	113.7	131.0	131.0
36		94.8	131.0	131.0
42		81.2	121.9	131.0
48		71.1	106.6	131.0

NOTE:
SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD OR SILL ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

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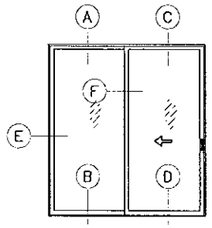
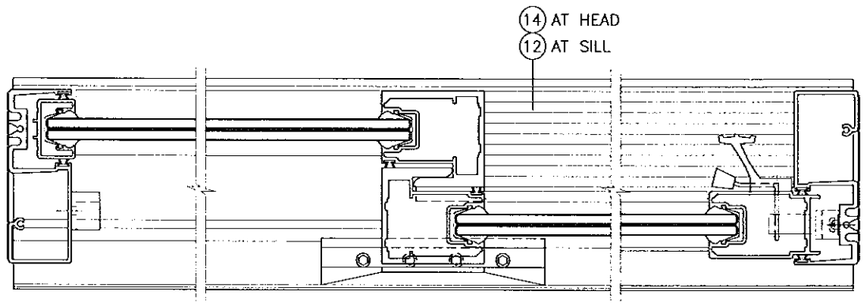
date: 11-02-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

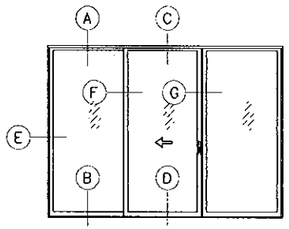
drawing no.
W01-75

CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY
SEE SHEETS 4 & 5 FOR FRAME ANCHOR INSTALLATIONS.



OX (SHOWN)
XO





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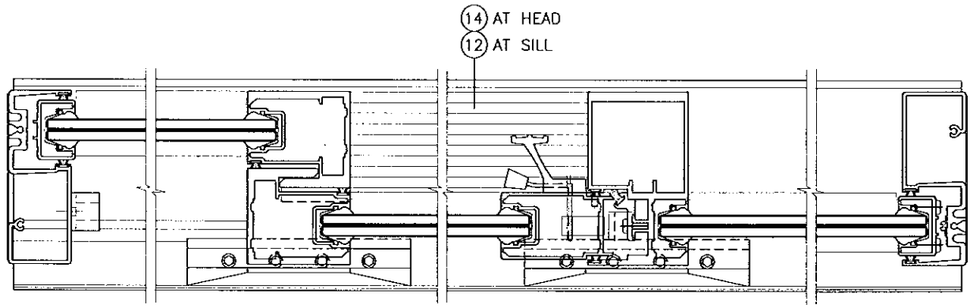

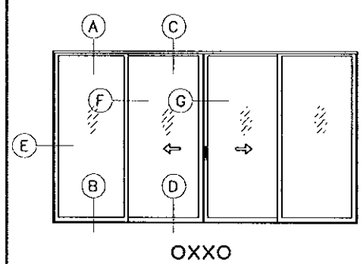

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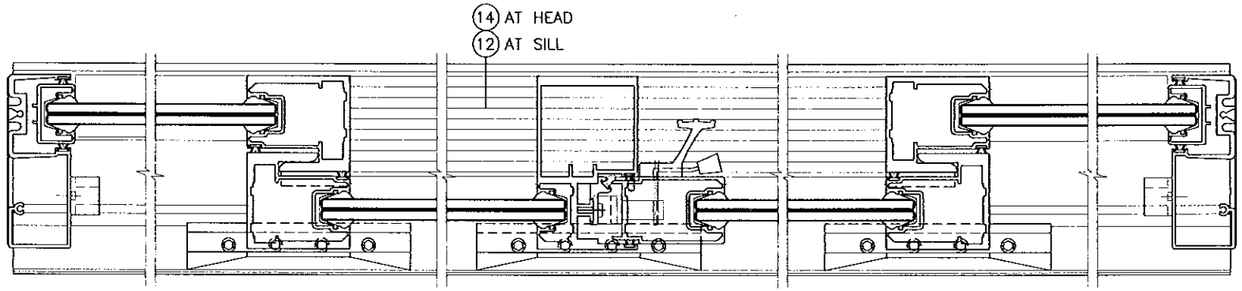

APPROVED CONFIGURATIONS

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Engr: JAVAD AHMAD
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COMP-ANL\W01-75RC

SERIES-2400ST ALUM SLD. GLASS DOOR (L.M.I.)

TECNOGLASS, LLC
5220 N.W. 72 AVE. BAY #4
MIAMI, FL. 33166
TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:			
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G	08.05.10		GENERAL REVISION
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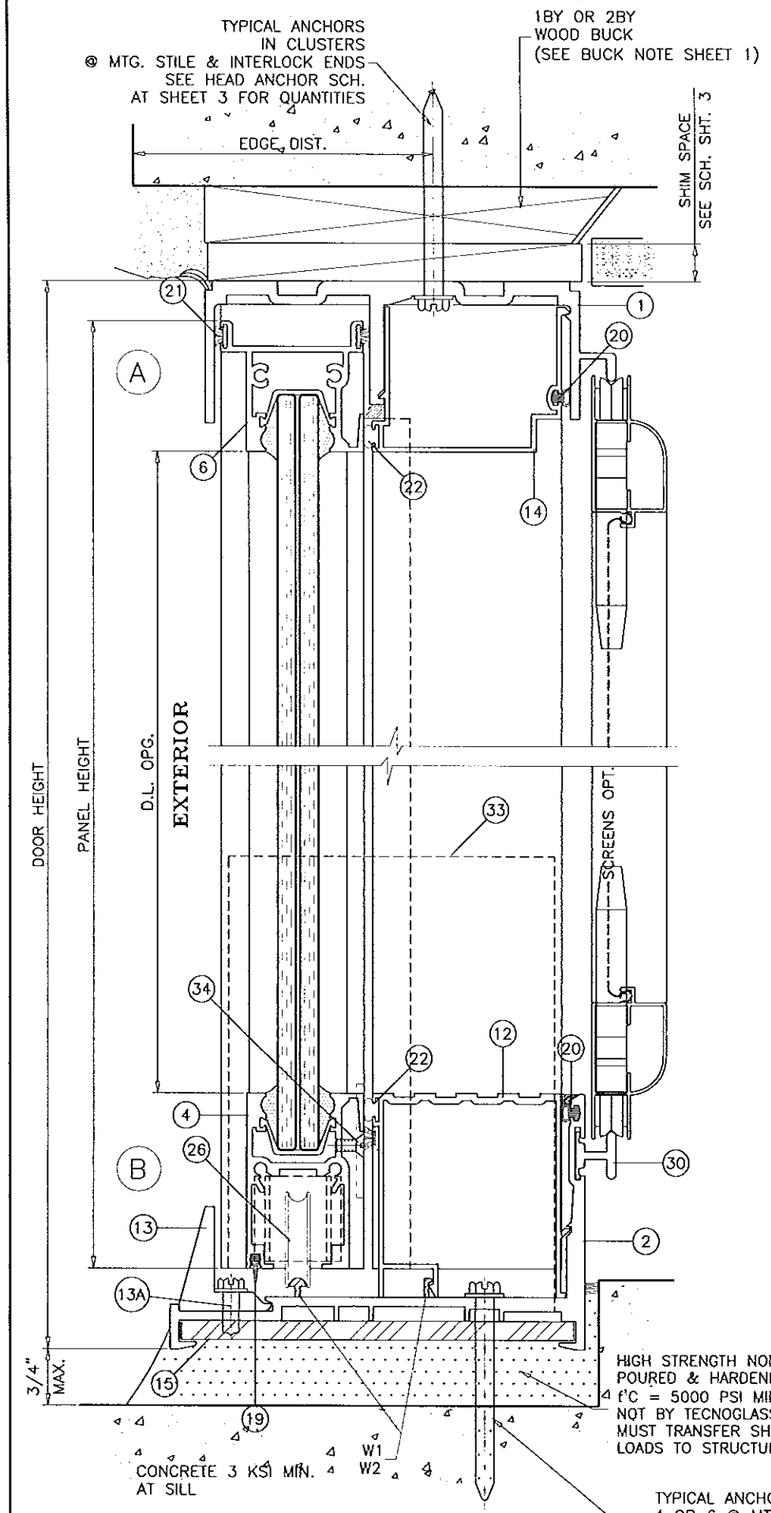
J	08.01.14		MANUF. NAME REV.

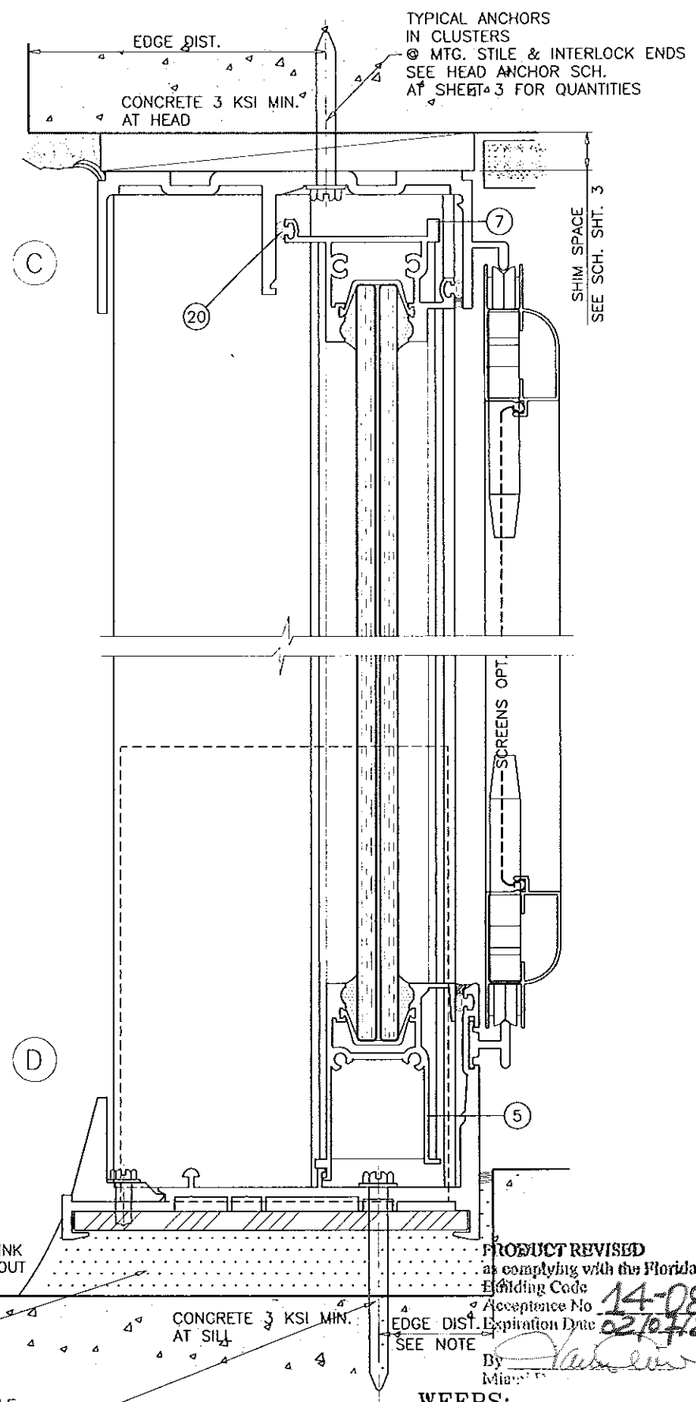
date: 11-02-01
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

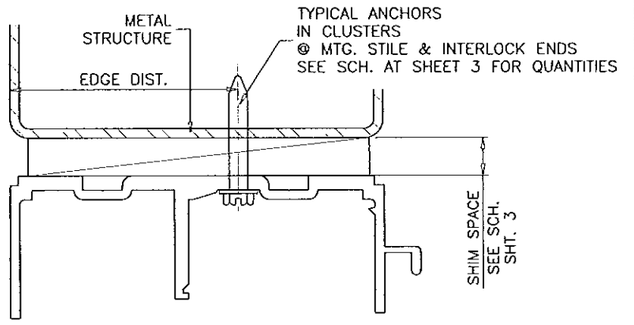
drawing no.
W01-75

sheet 3.2 of 9



1BY OR 2BY WOOD BUCKS AND 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

AT HEAD

TYPE 'A'

1/4" X 2-3/4" HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-3/8" MIN. CONCRETE EMBEDMENT

TYPE 'B'

1/4" X 2-3/4" HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONCRETE, 1-3/4" MIN. EMBEDMENT

TYPE 'C'

1/4" TEKS OR SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

1/4" DIA HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONCRETE, 1-3/8" MIN. EMBEDMENT

AT JAMBS

1/4" DIA. HILTI KWIK-CON II (Fu=163 KSI, Fy=157 KSI)
THRU 1BY BUCKS, 1-1/4" MIN. CONC. OR MASONRY EMBED.
INTO 2BY BUCKS, 1-3/8" MIN. WOOD EMBEDMENT
DIRECTLY INTO MASONRY OR CONCRETE
1-1/4" MIN. MASONRY OR CONCRETE EMBEDMENT

1/4" TEKS OR SELF DRILLING SCREWS (Fu=92 KSI, Fy=120 KSI)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW FILLED BLOCK AT JAMBS f'm = 1500 PSI MIN.

WEEPS:

W1 = 2-1/2" WEEP NOTCH AT SILL CENTER
W2 = 1" NOTCH AT EACH END

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By
Miami-Dade

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FLA. PE # 70592
C.A.N. 3538

AUG 27 2014

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ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\W01-75RC

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dr. by: HAMID
chk. by:

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sheet 4 of 9

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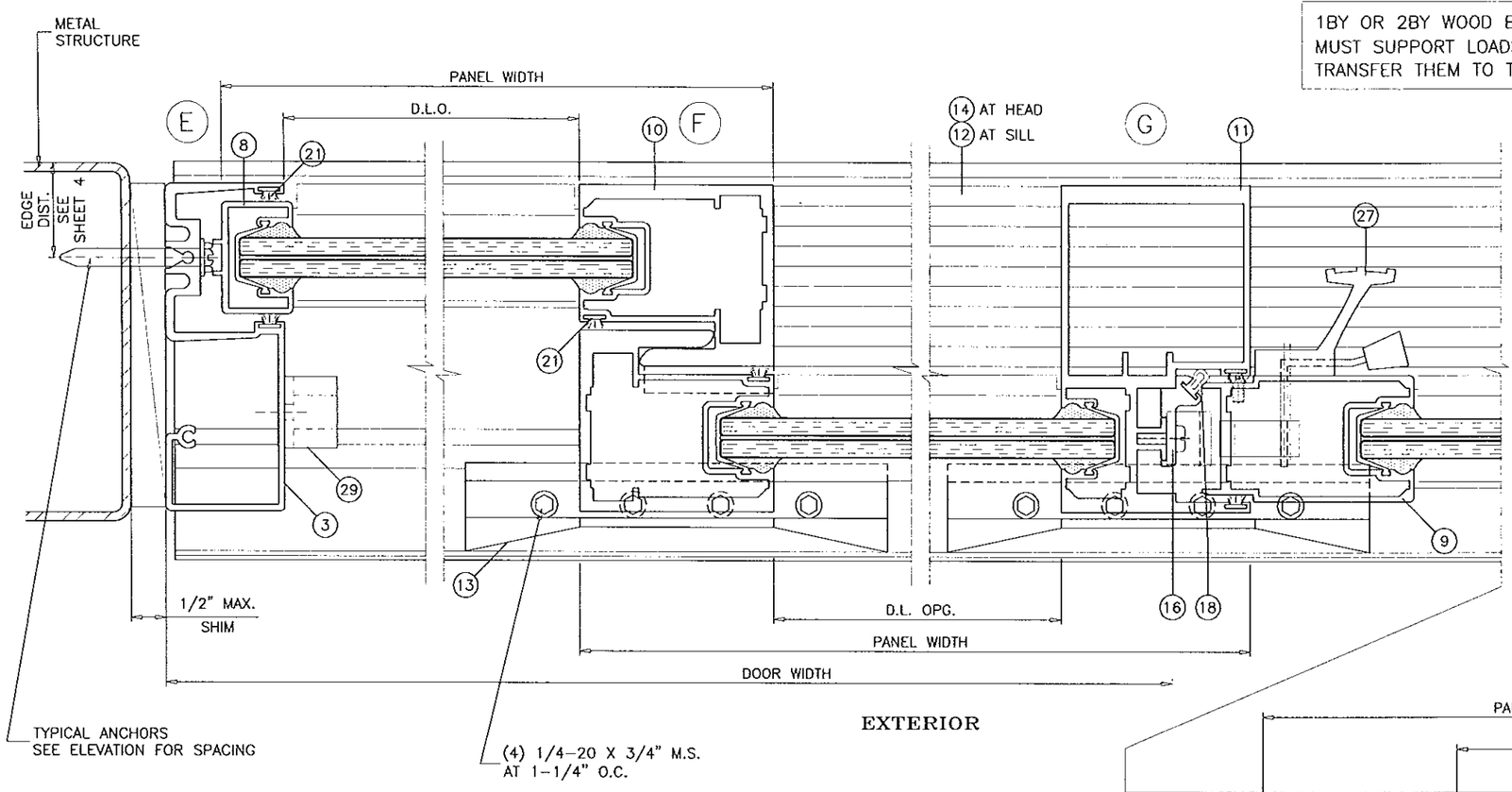
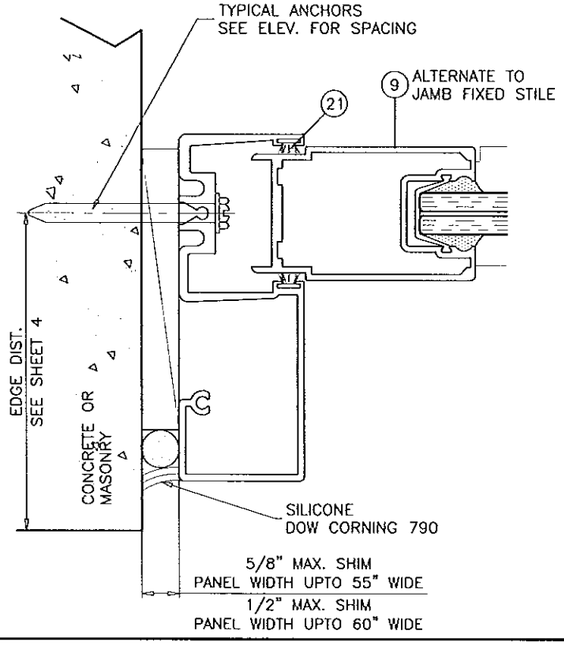
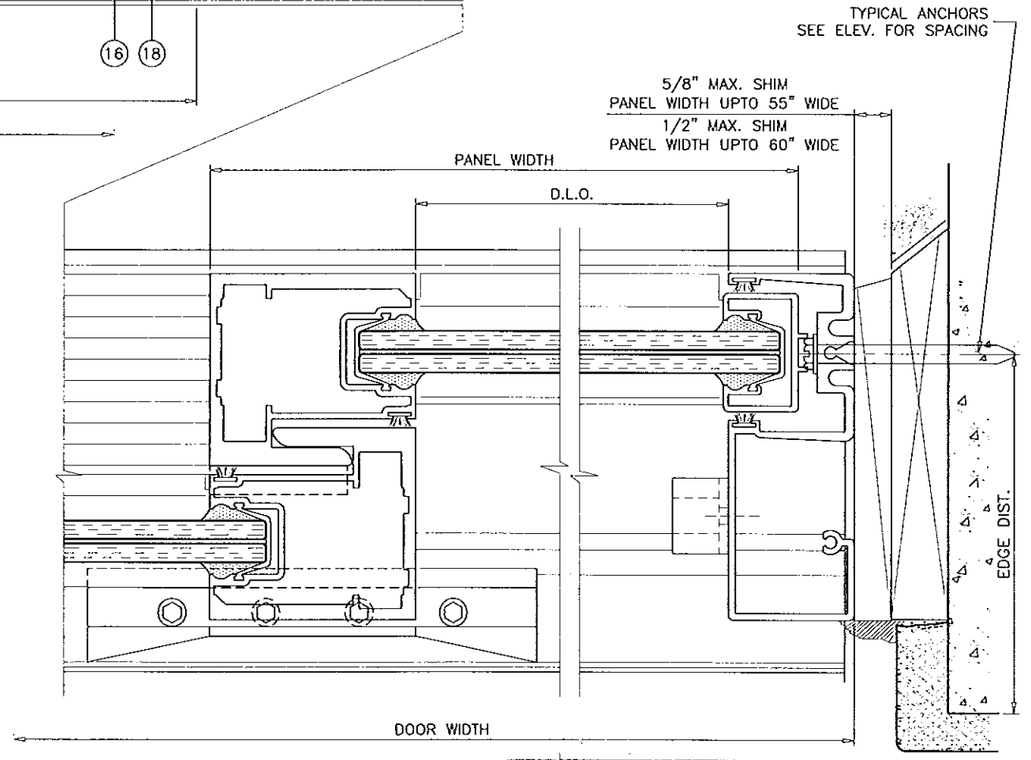


EXTERIOR





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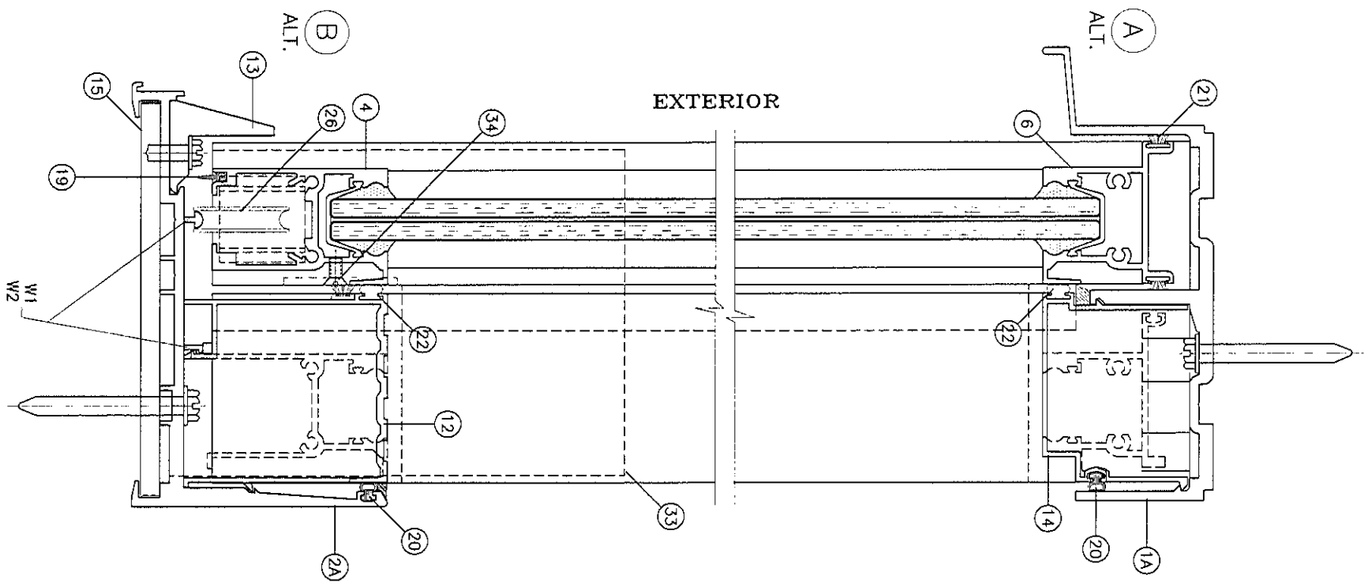

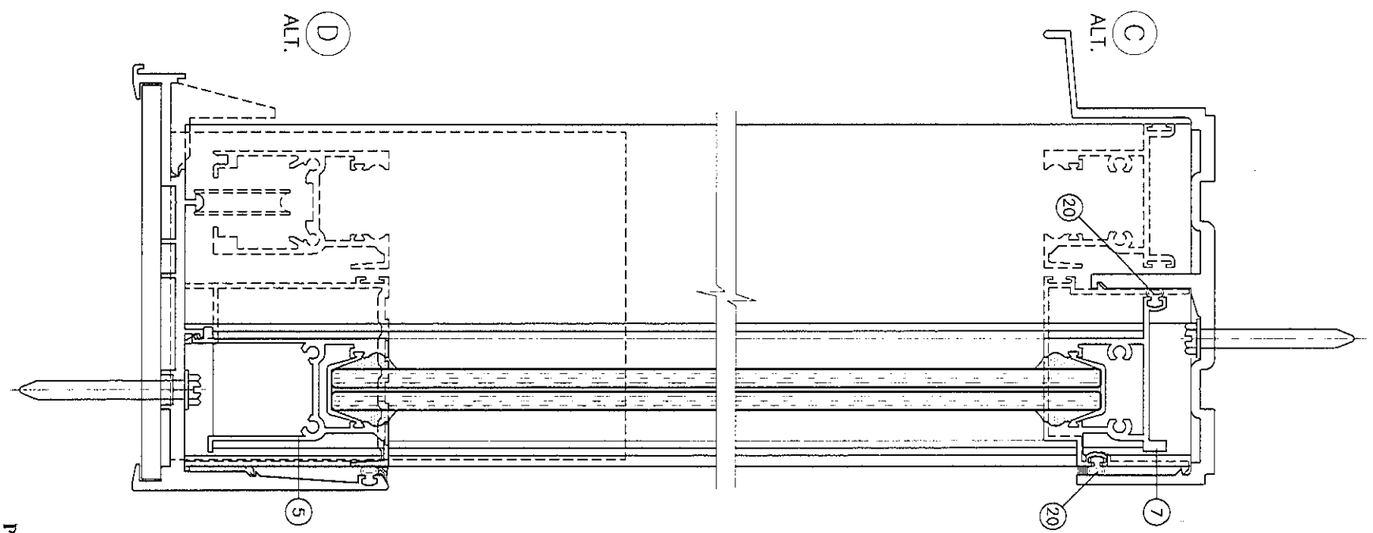

ILLUSTRATED ALTERNATE DOOR FRAMES

THIS SHEET SHOWS ALTERNATE DOOR FRAMES WITH OUTSIDE SCREEN OPTION. HEAD/SILL/JAMB INSTALLATION FOR THESE FRAMES IS IDENTICAL TO STANDARD FRAMES INSTALLATION AS SHOWN ON SHEETS 4 AND 5.

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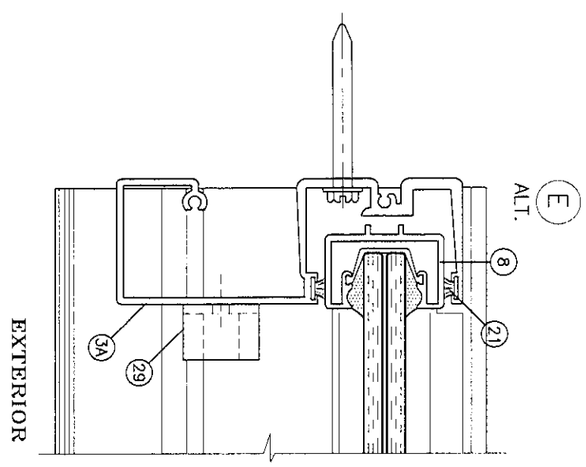

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dr. by: HAMID	F	06.03.09		UPDATED FOR 2007 FBC
chk. by:	G	08.05.10		GENERAL REVISION
	H	03.15.11		REV PER BNC COMMENTS
	I	02.13.12		NO CHANGE THIS SHEET
	J	08.01.14		MANUF. NAME REV.

SERIES-2400ST ALUM SLD. GLASS DOOR (L.M.I.)

TECNOGLASS, LLC
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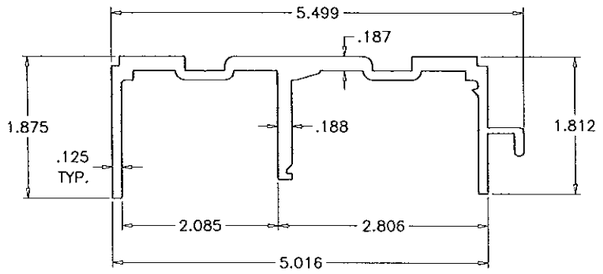
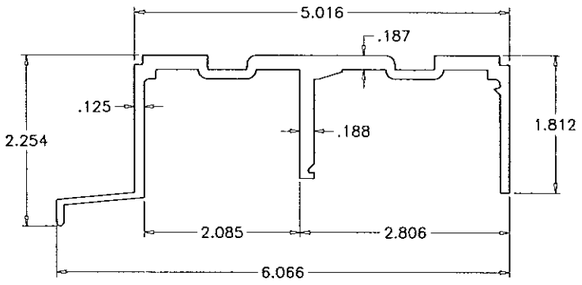
COMP-ANL\W01-75RC

drawing no. W01-75

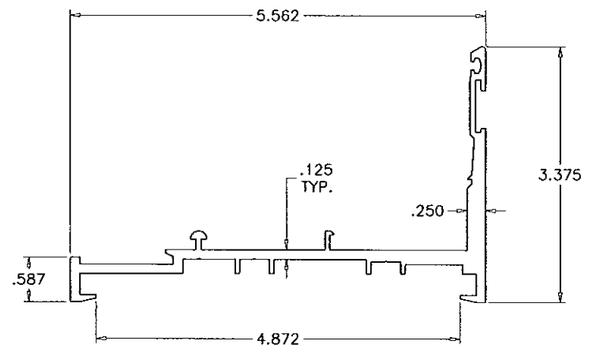
sheet 6 of 9



(1) FRAME HEAD



(1A) ALT. FRAME HEAD



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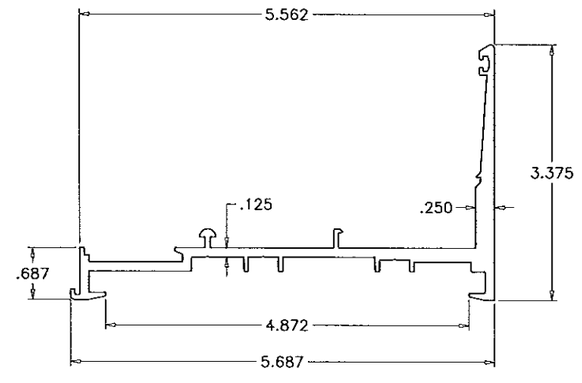

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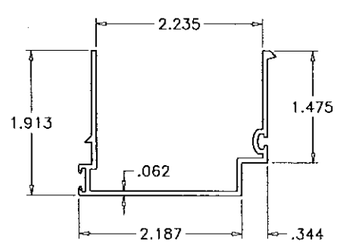
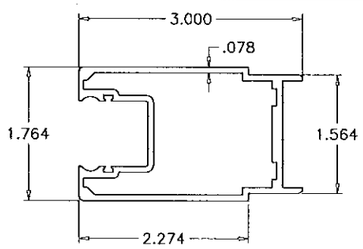
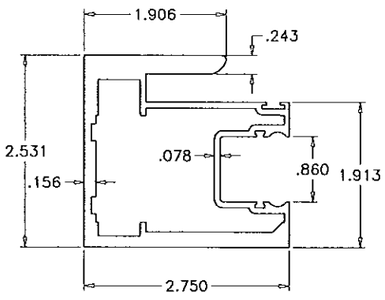


(14) HEAD ADAPTER



(9) LOCK STILE



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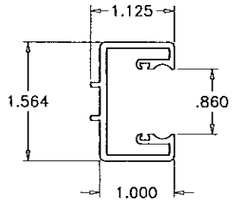
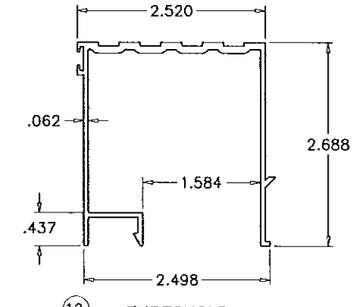
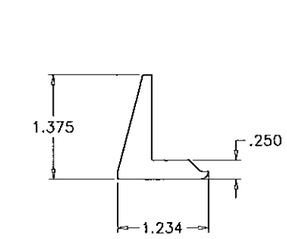


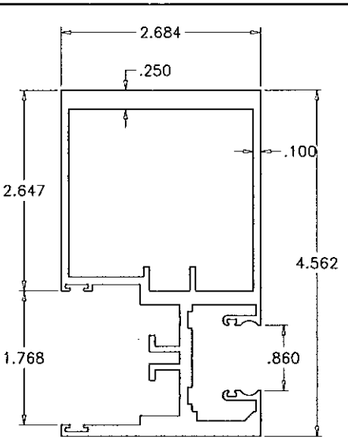
(8) FIXED STILE



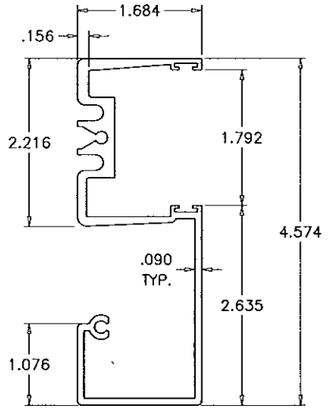
(12) THRESHOLD



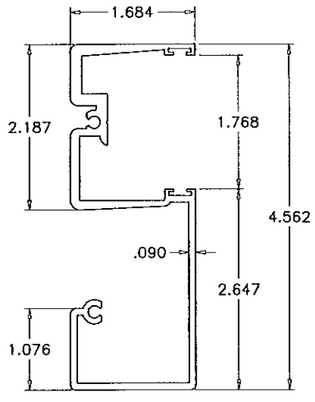
(13) SILL ANCHOR



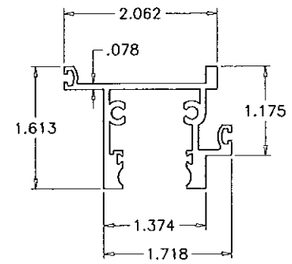
(11) MTG. STILE



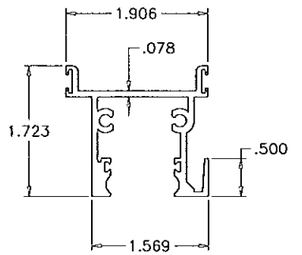
(3) FRAME JAMB



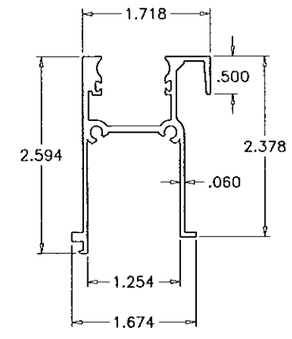
(3A) ALT. FRAME JAMB



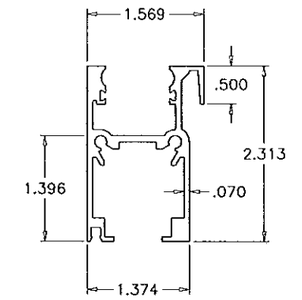
(7) FIX. TOP RAIL



(6) MOV. TOP RAIL



(5) FIX. BOTTOM RAIL



(4) MOVING BOTTOM RAIL

PRODUCT REVISED
as complying with the Florida
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Acceptance No 14-0807.16
Expiration Date 12/07/2017
By
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 27 2014

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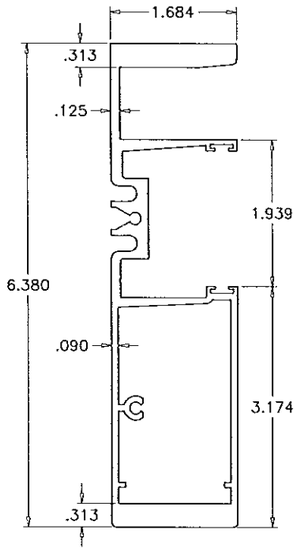
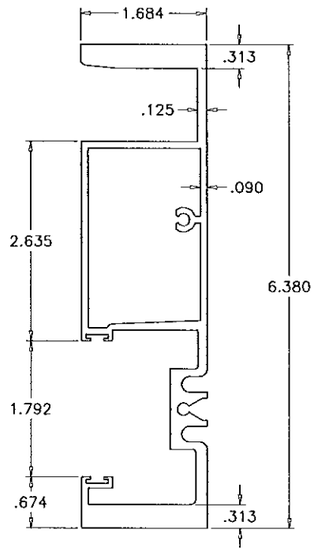


Ix IN^4	Sx IN^3
13.025	4.031

(35) FREE STANDING FRAME JAMB
FIXED SIDE



Ix IN^4	Sx IN^3
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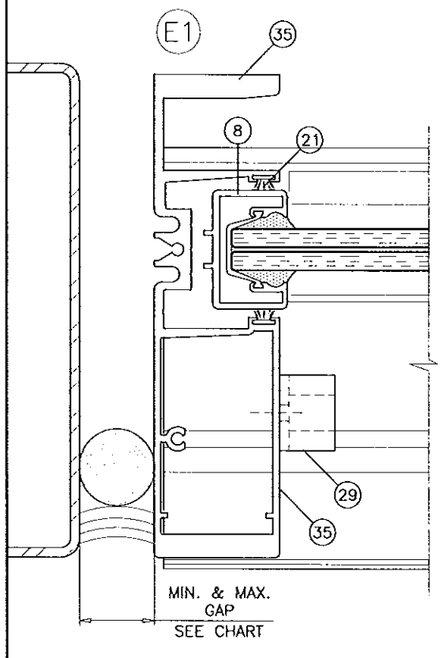
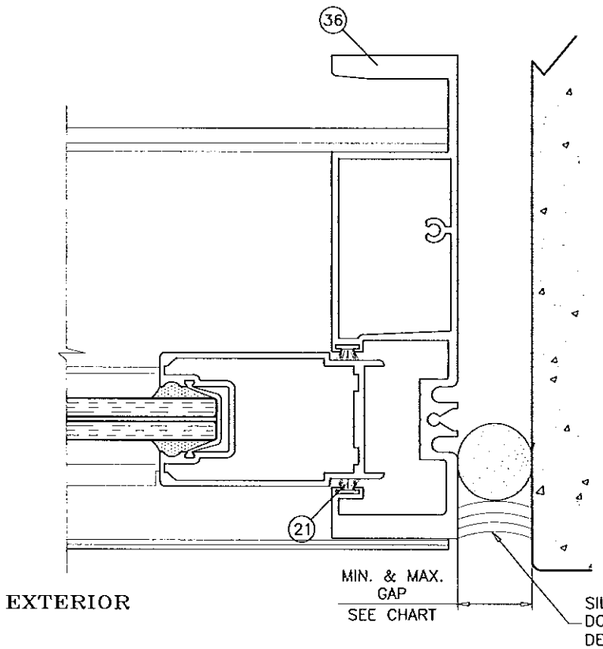
(36) FREE STANDING FRAME JAMB
OPERABLE SIDE



FREE STANDING JAMB
FIXED SIDE



FREE STANDING JAMB
OPERABLE SIDE

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MAX. FRAME HEIGHT	GAP MIN.	GAP MAX.
84"	7/16"	1"
108"	1/2"	1"
120"	5/8"	1"

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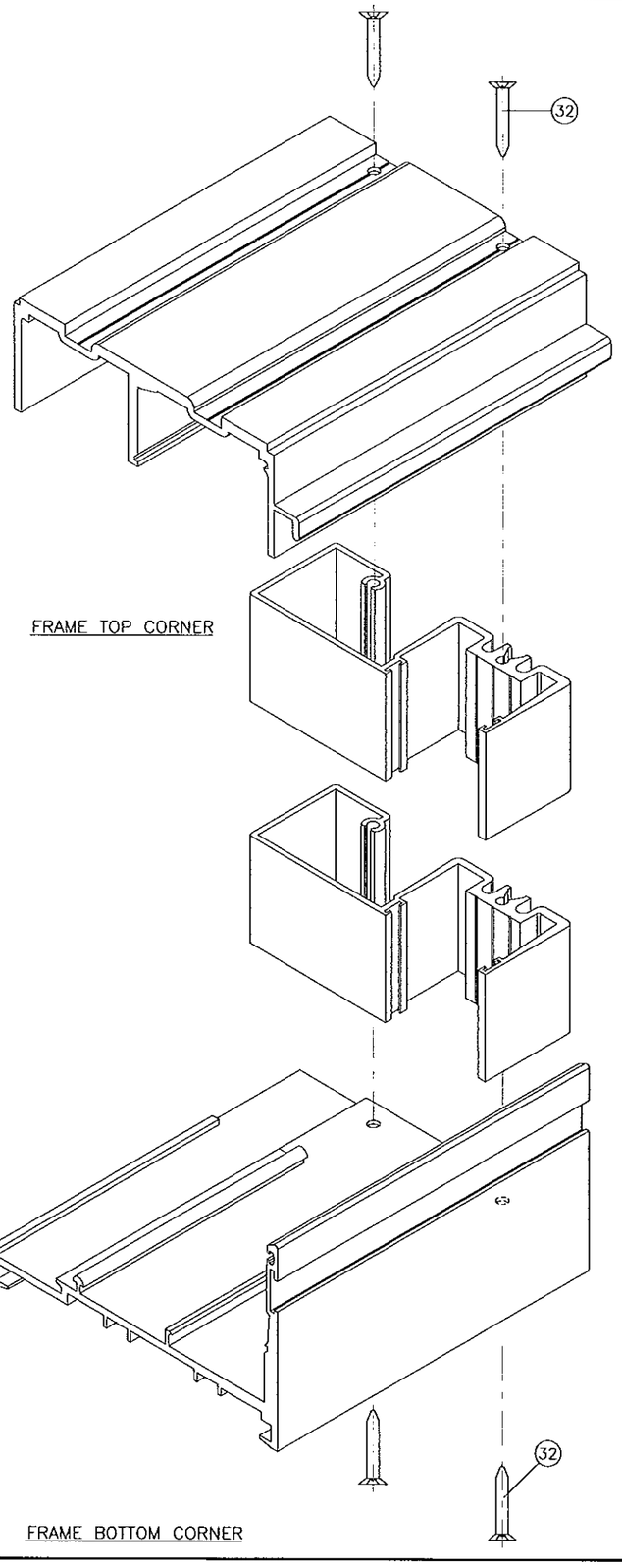
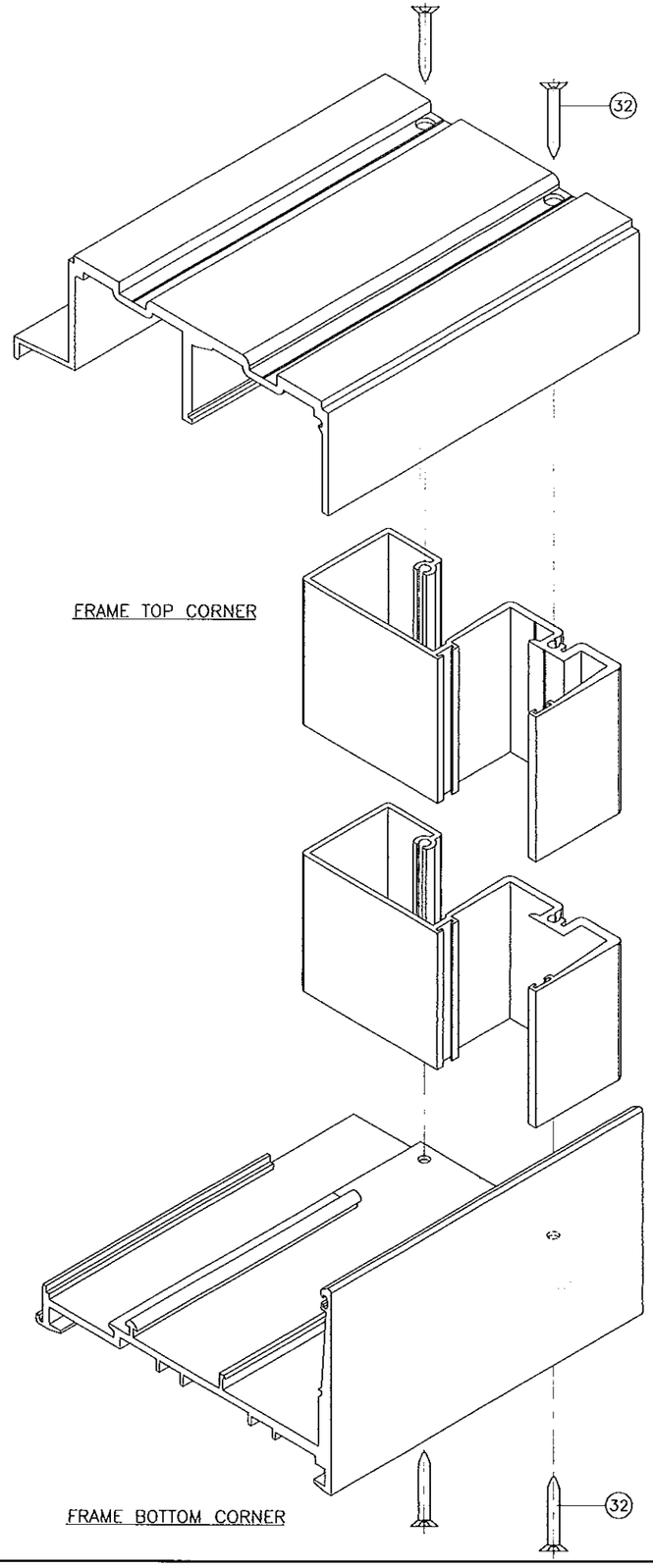
sheet 8 of 9



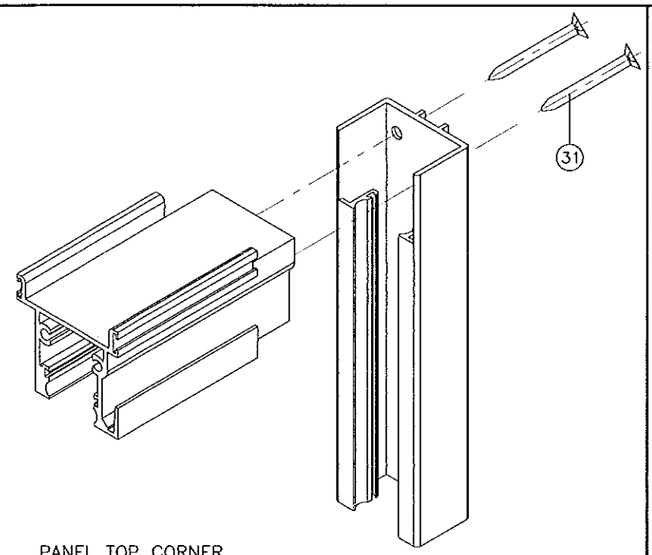
FRAME TOP CORNER

FRAME BOTTOM CORNER

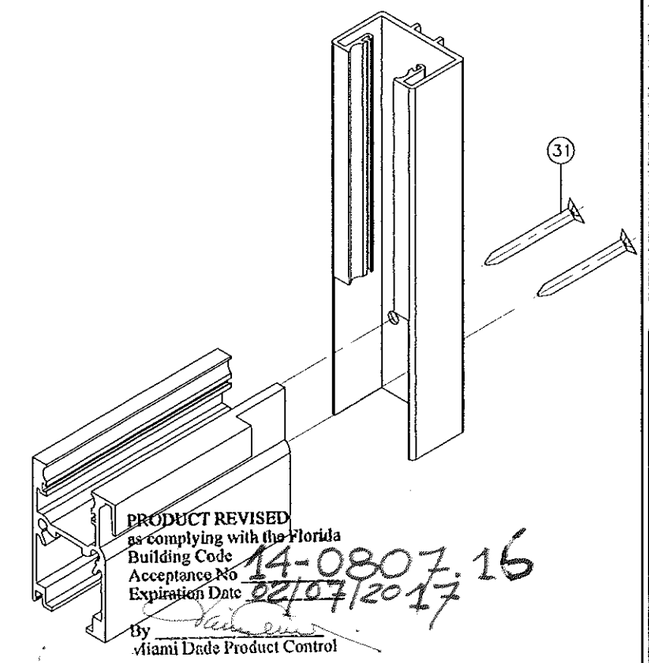


FRAME TOP CORNER

FRAME BOTTOM CORNER



PANEL TOP CORNER



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PANEL BOTTOM CORNER

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