



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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

WinDoor, Inc.
7500 Amsterdam Drive
Orlando, FL 32832

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 "V-100 Tilt-Turn" White PVC Dual Action Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **08-00991**, titled "Series V-100 PVC Dual Action Tilt-Turn Window – Large Missile Impact", sheets 1 through 23 of 23, dated 05/18/10, with revision "D" dated 05/17/16, prepared by manufacturer, signed and sealed by Luis R. Lomas, 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

LIMITATION: Steel Framing 2x Backed 18Ga. (0.048" Min.) Substrate with Ultimate Strength of 52 ksi.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews NOA No. 13-0321.10** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P.E.**



AP 6/02/16

NOA No. 15-0723.17
Expiration Date: November 24, 2020
Approval Date: June 09, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's No.'s 13-0321.10 and 10-0628.01)
2. Drawing No. **08-00991**, Sheets 1 through 23 of 23, titled "Series V-100 PVC Dual Action Tilt-Turn Window – Large Missile Impact", dated 05/18/10, with revision "**D**" dated 05/17/16, prepared by manufacturer, signed and sealed by Luis R. Lomas, 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, per ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of: series V100 tilt and turn PVC windows, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NCTL-210-3658-10** dated 10/25/12, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under previous NOA No. 13-0321.10)

2. 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 ASTM F 588-04/ 07 and per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of: series V100 tilt and turn PVC windows, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NCTL-210-3658-1**, dated 01/19/10, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under NOA No. 10-0628.01)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 07/10/15, revised on 04/20/16, prepared, signed and sealed by Luis R. Lomas, P.E.
2. **Glazing complies with ASTM E1300-04/ 09**



Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0723.17
Expiration Date: November 24, 2020
Approval Date: June 09, 2016

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D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their "**SentryGlas® (Clear and White) Glass Interlayers**" dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **12-0106.01** issued to **VEKA, Inc.**, for their "**White Rigid PVC Exterior Extrusions for Windows and Doors**" dated 08/09/12, expiring on 03/04/17.

F. STATEMENTS

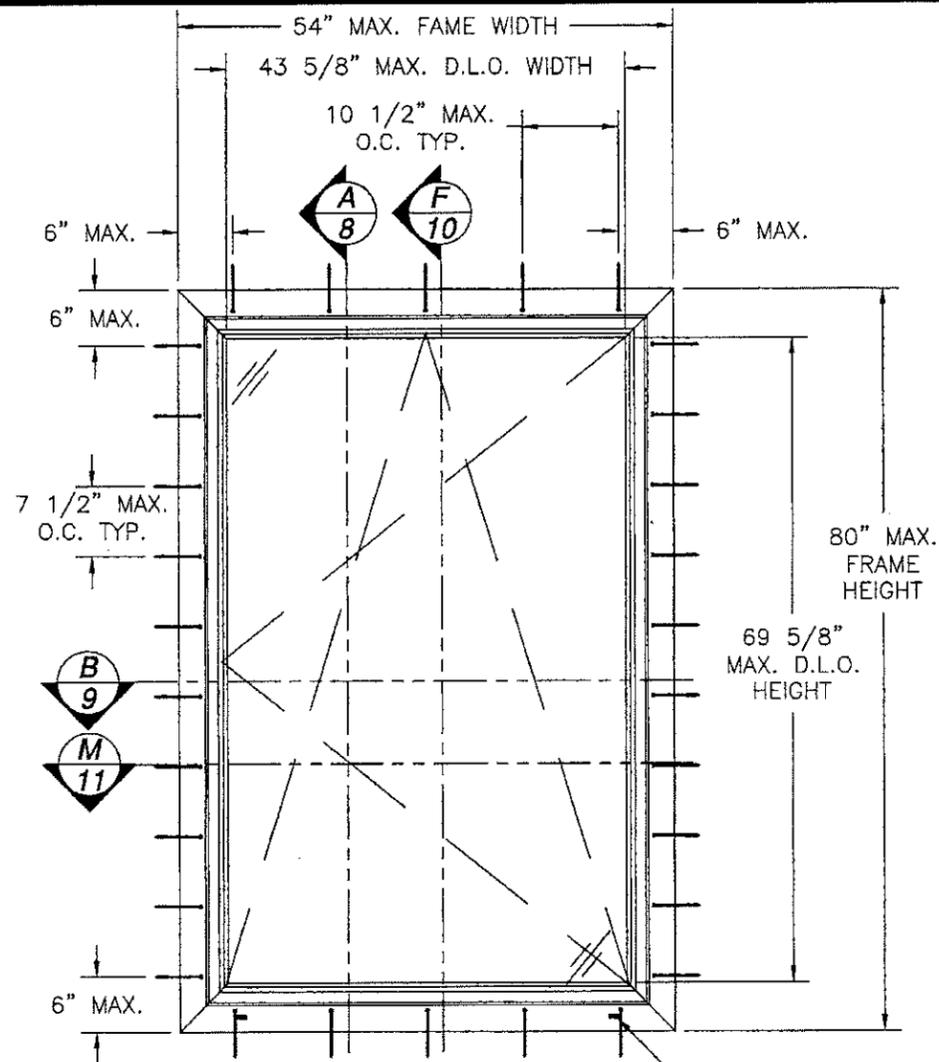
1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated 07/10/15, issued by manufacturer, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Reports No.'s **NCTL-210-3658-10** dated 10/25/12 and **NCTL-210-3658-1**, dated 01/19/10, both issued by National Certified Testing Laboratories, Inc., both signed and sealed by Gerard J. Ferrara, P. E.
(Submitted under NOA's No.'s 13-0321.10 and 10-0628.01)

G. OTHERS

1. Notice of Acceptance No. **13-0321.10**, issued to WinDoor, Inc. for their Series "**V-100 Tilt-Turn White PVC Fixed Window - L.M.I.**" approved on 09/12/13 and expiring on 11/24/15.



Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0723.17
Expiration Date: November 24, 2020
Approval Date: June 09, 2016



**SERIES V-100 PVC DUAL ACTION
TILT-TURN WINDOW FULL LITE**
EXTERIOR VIEW

WEEP SLOT
SEE NOTE
SHEET 2, TYP.

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME & SASH WITH ALUMINUM OR
STEEL REINFORCEMENT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 4, 2010	10/07/10	R.L.
B	ADDED ALUMINUM REINFORCED OPTION	01/22/13	R.L.
C	REVISED PER NEW REQUIREMENTS	08/12/16	R.L.
D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE 5th. EDITION INCLUDING THE HVHZ.
- WOOD FRAMING, 2X BACKED STEEL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SEPARATION OF DISSIMILAR MATERIALS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME AND SASH MATERIAL: WHITE EXTRUDED RIGID PVC BY VEKA WITH TENSILE STRENGTH OF 7.3KSI.
- UNITS MUST BE GLAZED PER ASTM E1300-04/09, SEE SHEET 12 FOR GLAZING DETAILS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- FOR ANCHORING INTO MASONRY USE 1/4" ELCO CRETE-FLEX TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO 2X WOOD FRAMING OR 2X BUCK OR 2X BACKED 16GA. STEEL FRAMING USE #14 WOOD SCREW GRADE 5 WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF $G=0.42$
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, NORMAL WEIGHT W/2KSI STRENGTH.
 - STEEL FRAMING: 2X BACKED 18GA. (.048" MIN.) STEEL FRAMING.
- MAXIMUM SASH SIZE: 50" x 76".

SIGNED: 05/17/2016

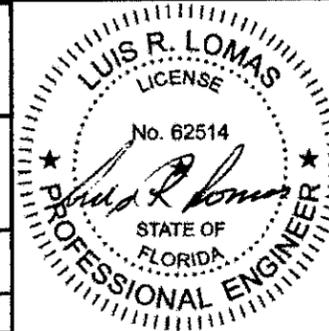
TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1 - 7	ELEVATION, ANCHORING LAYOUT AND NOTES
8 - 11	BILL OF MATERIALS AND CROSS SECTIONS
12	CORNER CONSTRUCTION AND GLAZING DETAILS
13 - 17	INSTALLATION DETAILS
18	COMPONENTS
19 - 23	HARDWARE LAYOUTS

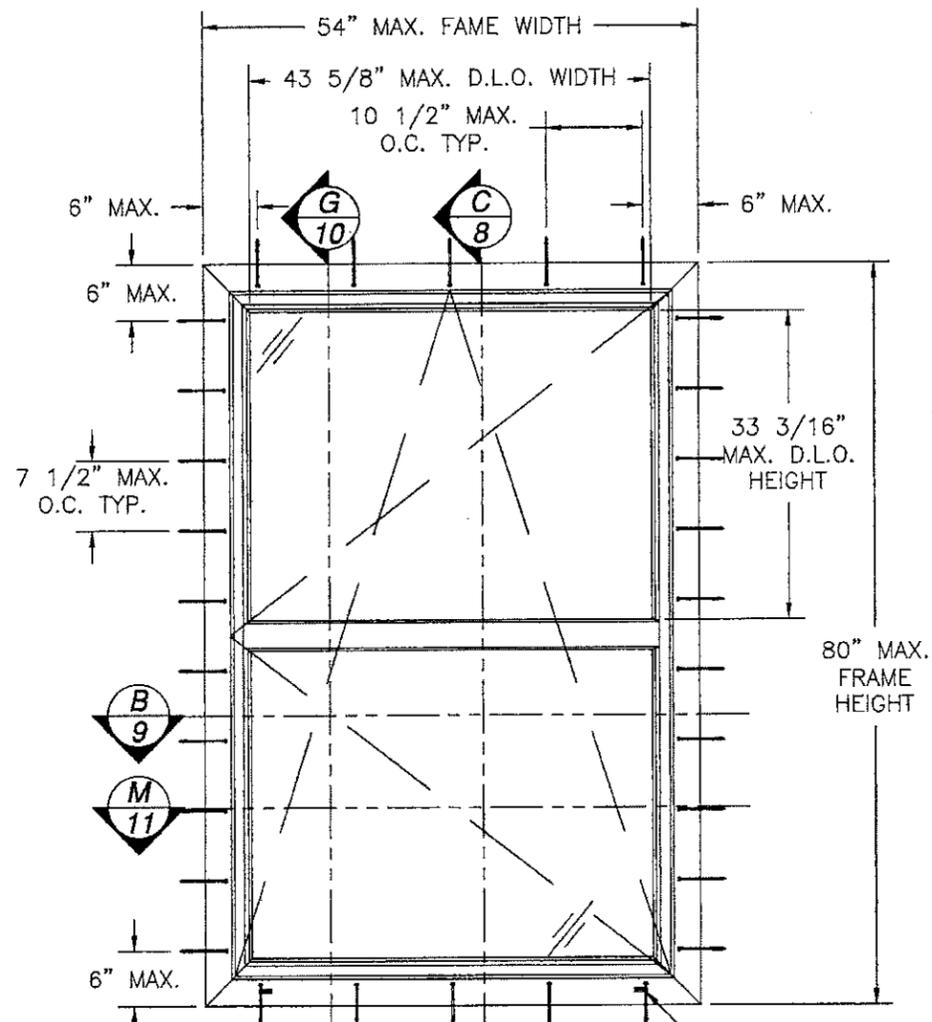
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0723.17**
Expiration Date **11/24/2020**
By *[Signature]*
Miami-Dade Product Control

WinDoor
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505 www.windoorinc.com

SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 1 OF 23



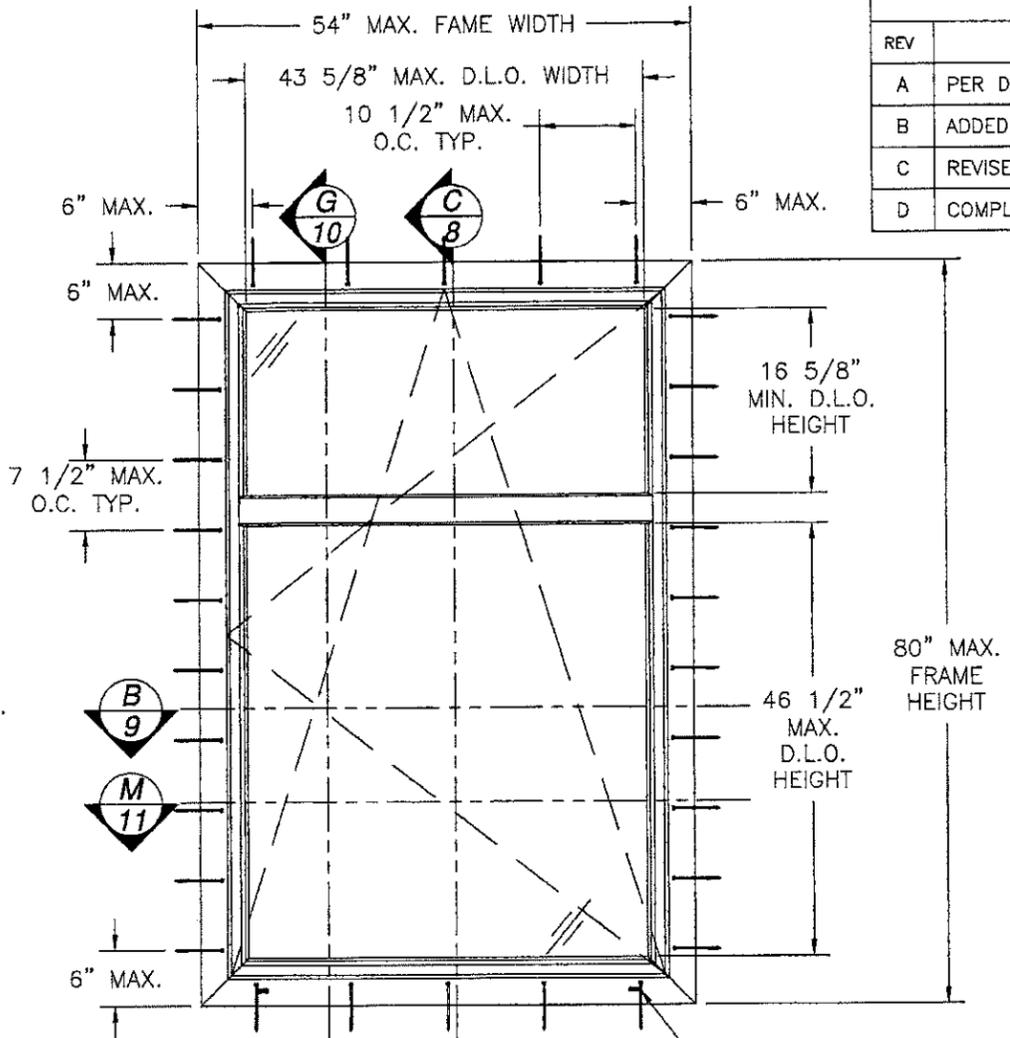


**SERIES V-100 PVC DUAL ACTION
TILT-TURN WINDOW W/TRUE DIVIDED
MUNTIN EQUAL LITE**
EXTERIOR VIEW

WEEP SLOT
SEE NOTE
SHEET 2, TYP.

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME, SASH & MULLION WITH ALUMINUM OR
STEEL REINFORCEMENT



**SERIES V-100 PVC DUAL ACTION
TILT-TURN WINDOW W/TRUE DIVIDED
MUNTIN UNEQUAL LITE**
EXTERIOR VIEW

WEEP SLOT
SEE NOTE
SHEET 2, TYP.

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME, SASH & MULLION WITH ALUMINUM OR
STEEL REINFORCEMENT

REVISIONS			
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B	ADDED ALUMINUM REINFORCED OPTION	01/22/13	R.L.
C	REVISED PER NEW REQUIREMENTS	08/12/16	R.L.
D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.

WEEP SLOT NOTE:
WEEP SLOT IN FRAME MEASURES 1 1/8" WIDE x
3/16" HIGH. WEEP SLOTS ARE LOCATED 6" IN
AND 1 7/16" UP FROM EACH CORNER OF THE
SILL. WEEP SLOTS ARE FITTED WITH A WEEP
COVER, BILL OF MATERIALS ITEM #22.

SIGNED: 05/17/2016

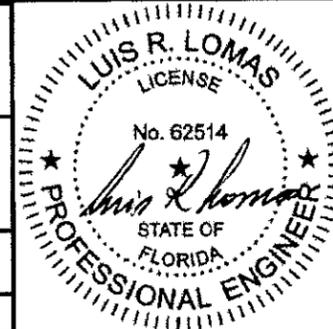
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INCORPORATED

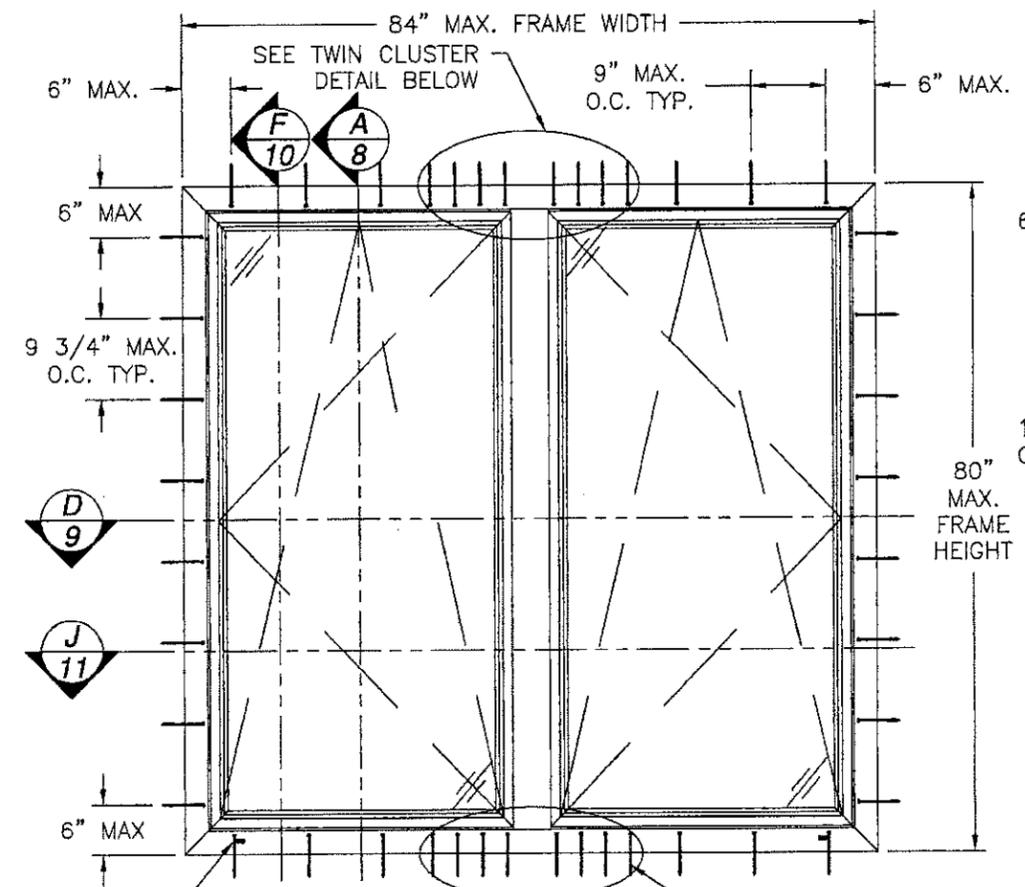
7500 AMSTERDAM DRIVE
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SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
ELEVATIONS AND ANCHORING LAYOUTS

DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 2 OF 23



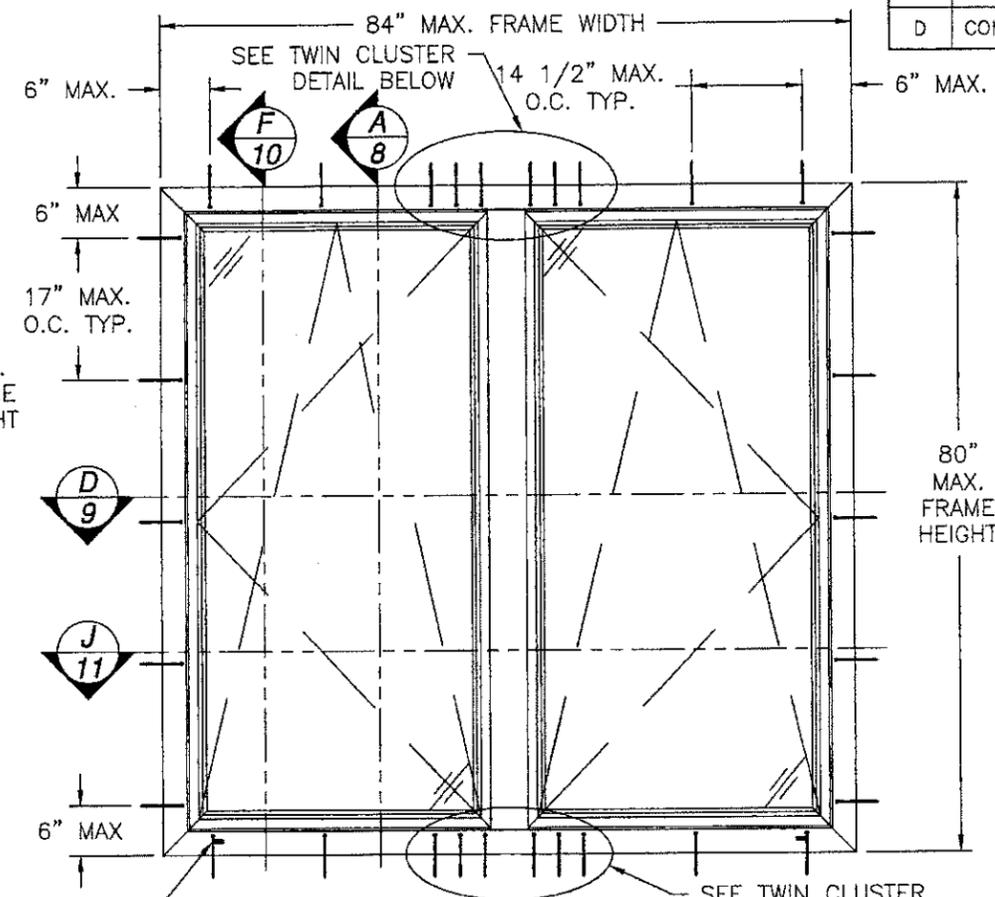
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**SERIES V-100 PVC DUAL ACTION
TILT-TURN TWIN WINDOW FULL LITE
EXTERIOR VIEW**

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF	LARGE MISSILE IMPACT
- 130.0 PSF	

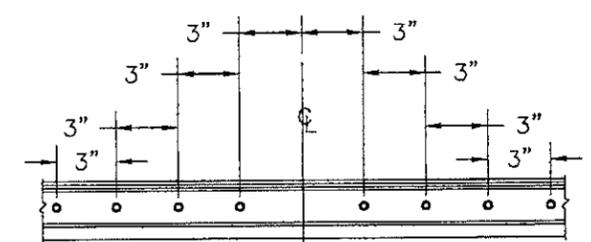
FRAME, SASH & POST WITH STEEL REINFORCEMENT



**SERIES V-100 PVC DUAL ACTION
TILT-TURN TWIN WINDOW FULL LITE
EXTERIOR VIEW**

DESIGN PRESSURE RATING	IMPACT RATING
±75.0PSF	LARGE MISSILE IMPACT

FRAME & SASH WITH ALUMINUM REINFORCEMENT
POST WITH STEEL REINFORCEMENT



**TWIN CLUSTER DETAIL
TYPICAL HEAD AND SILL**

SIGNED: 05/17/2016

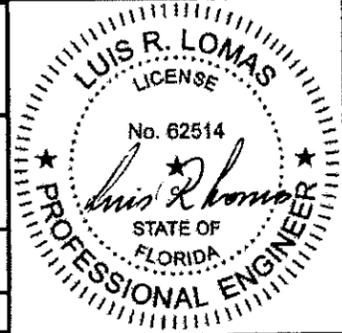
- NOTES:
- TWIN UNIT MAY CONTAIN A COMBINATION OF EQUAL AND/OR UNEQUAL LITES.
 - EQUAL LITE MAXIMUM D.L.O. SIZE: 34 9/16" x 33 3/16".
 - UNEQUAL LITE MINIMUM D.L.O. SIZE: 32 1/2" x 19 3/4".
 - UNEQUAL LITE MAXIMUM D.L.O. SIZE: 32 1/2" x 46 1/2".
 - MAXIMUM SINGLE SASH SIZE: 38 3/4" x 76"
 - MAXIMUM D.L.O.: 34 9/16" x 69 5/8"

PRODUCT REVISED
as complying with the Florida
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NOA-No. **15-0723.17**
Expiration Date **11/24/2020**
By *[Signature]*
Miami-Dade Product Control

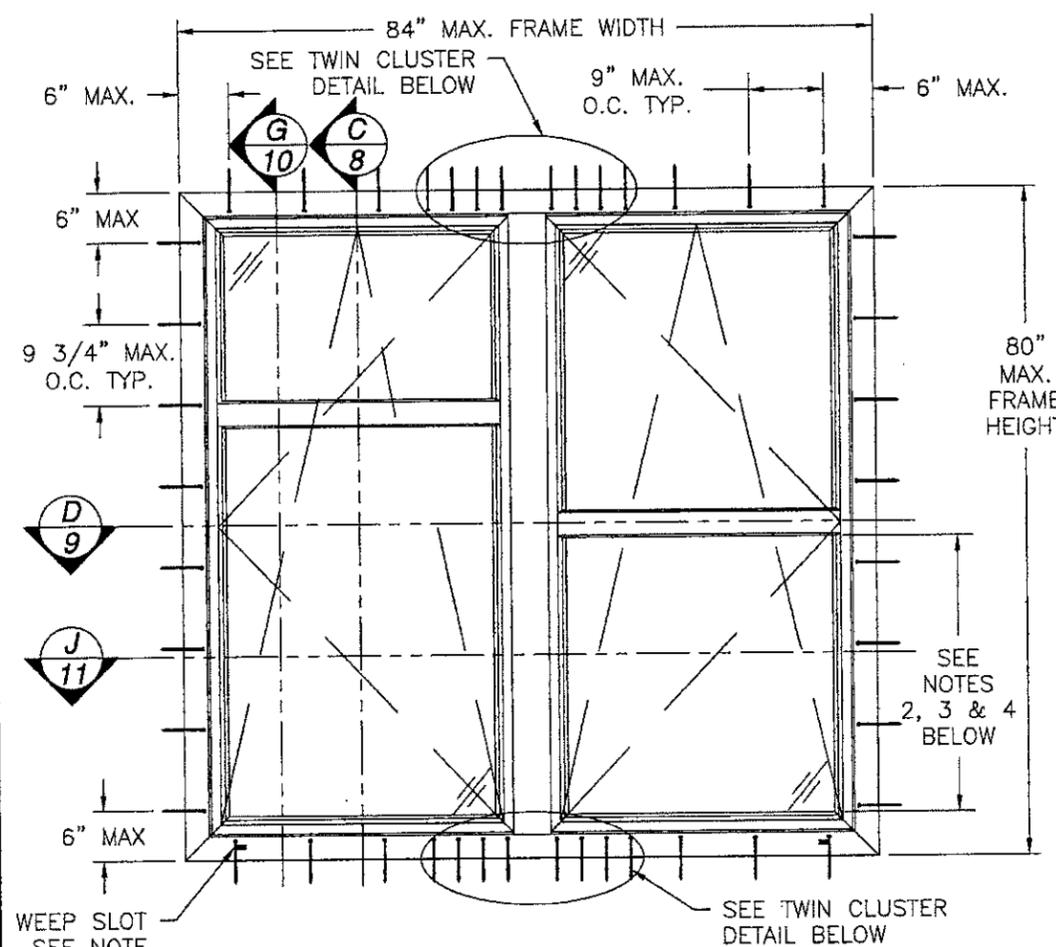
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SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
ELEVATIONS AND ANCHORING LAYOUTS

DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 3 OF 23



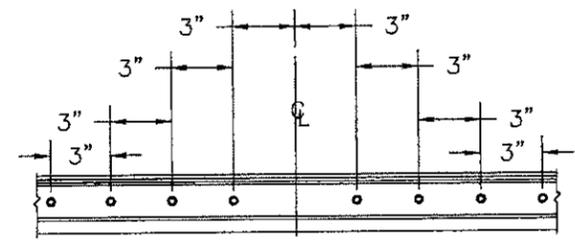
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C	REVISED PER NEW REQUIREMENTS	08/12/16	R.L.
D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.



**SERIES V-100 PVC DUAL ACTION TILT-TURN TWIN WINDOW
W/TRUE DIVIDED MUNTIN UNEQUAL AND EQUAL LITE**
EXTERIOR VIEW

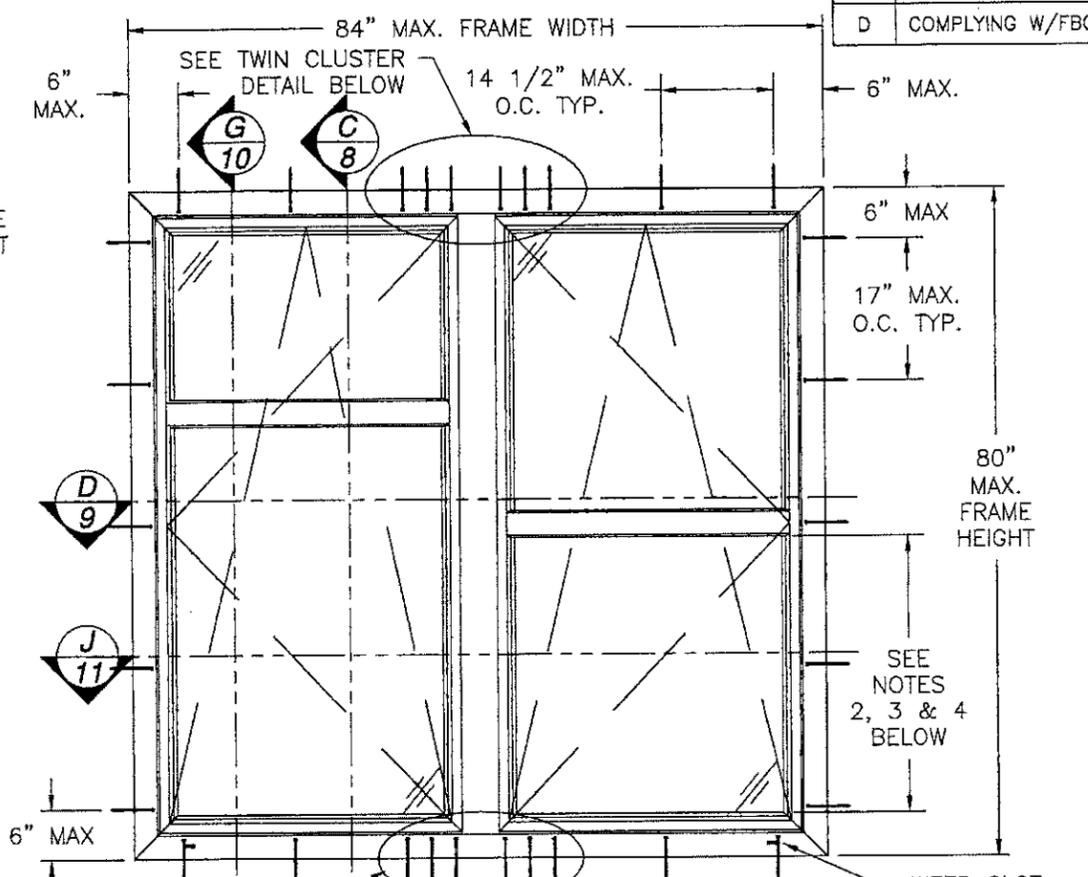
DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME, SASH, POST & MULLION WITH STEEL REINFORCEMENT



TWIN CLUSTER DETAIL
TYPICAL HEAD AND SILL

- NOTES:
- TWIN UNIT MAY CONTAIN A COMBINATION OF EQUAL AND/OR UNEQUAL LITES.
 - EQUAL LITE MAXIMUM D.L.O. SIZE: 34 9/16" x 33 3/16".
 - UNEQUAL LITE MINIMUM D.L.O. SIZE: 32 1/2" x 19 3/4".
 - UNEQUAL LITE MAXIMUM D.L.O. SIZE: 32 1/2" x 46 1/2".
 - MAXIMUM SINGLE SASH SIZE: 38 3/4" x 76"



**SERIES V-100 PVC DUAL ACTION TILT-TURN TWIN WINDOW
W/TRUE DIVIDED MUNTIN UNEQUAL AND EQUAL LITE**
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±75.0PSF	LARGE MISSILE IMPACT

FRAME, SASH & MULLION WITH ALUMINUM REINFORCEMENT
POST WITH STEEL REINFORCEMENT.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0723.17**
Expiration Date **11/24/2020**
By *[Signature]*
Miami-Dade Product Control

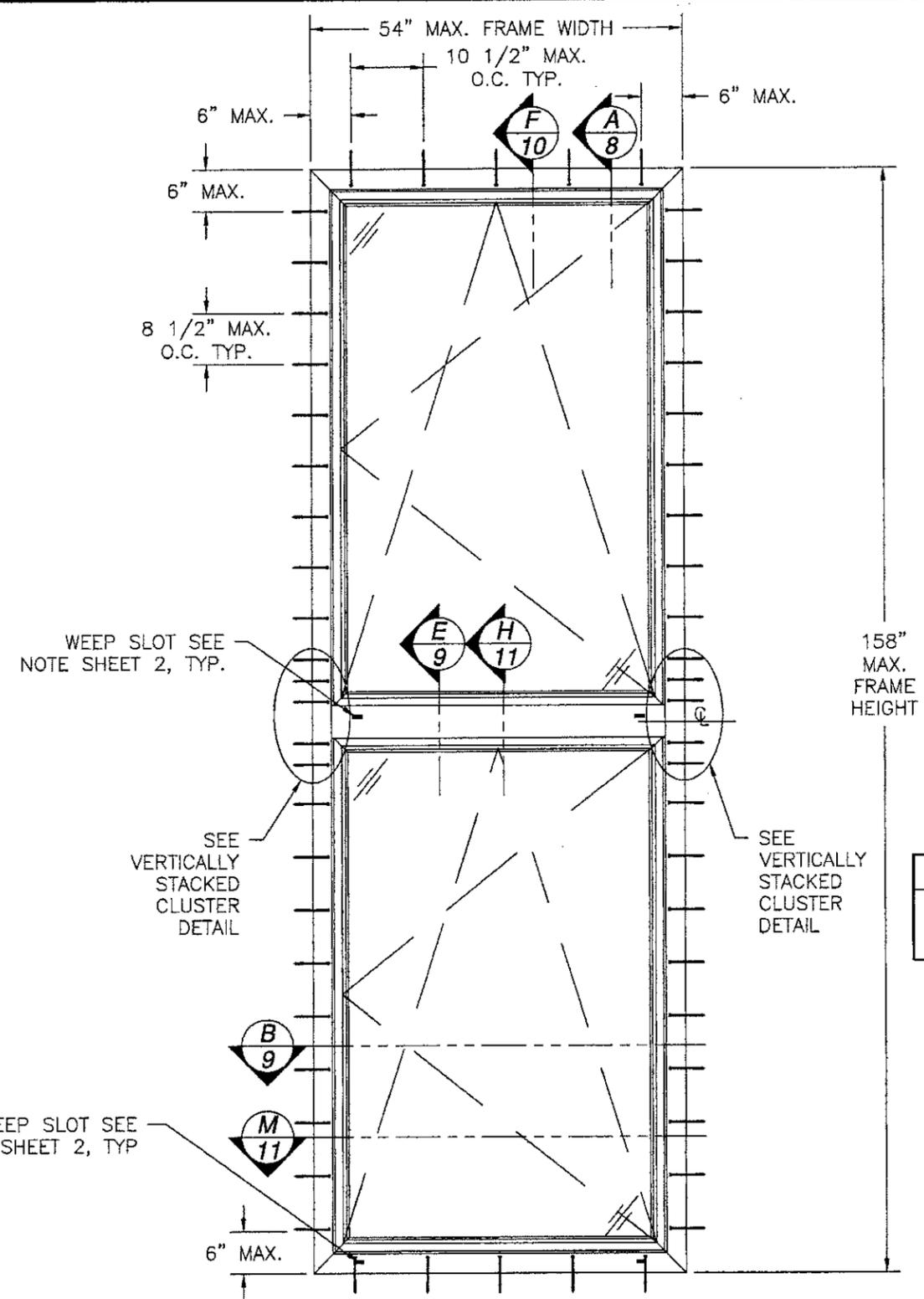
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SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
ELEVATIONS AND ANCHORING LAYOUTS

DRAWN: TJH DWG NO. 08-00991 REV D
SCALE NTS DATE 05/18/10 SHEET 4 OF 23

SIGNED: 05/17/2016

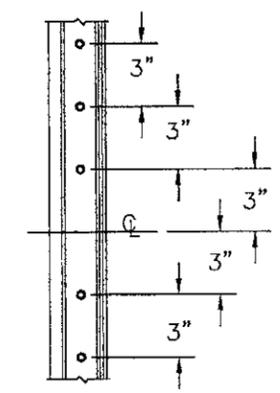
LUIS R. LOMAS
LICENSE
No. 62514
[Signature]
STATE OF
FLORIDA
PROFESSIONAL ENGINEER



**SERIES V-100 PVC DUAL ACTION
TILT-TURN VERTICALLY STACKED WINDOW FULL LITE
EXTERIOR VIEW**

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 4, 2010	10/07/10	R.L.
B	ADDED ALUMINUM REINFORCED OPTION	01/22/13	R.L.
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D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.

- NOTES:
 1) FULL LITE MAXIMUM D.L.O. SIZE: 43 5/8" x 69 5/8".
 2) MAXIMUM SINGLE SASH SIZE: 50" x 76".



**VERTICALLY STACKED
CLUSTER DETAIL**

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME, SASH & RAIL WITH ALUMINUM OR
STEEL REINFORCEMENT

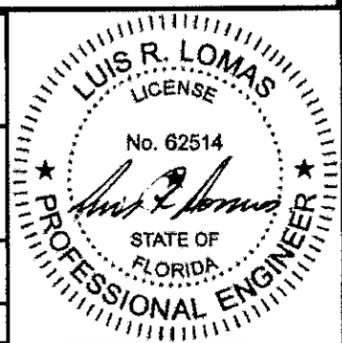
SIGNED: 05/17/2016

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SERIES V-100 PVC DUAL ACTION TILT-TURN
 WINDOW - LARGE MISSILE IMPACT
 ELEVATION AND ANCHORING LAYOUT

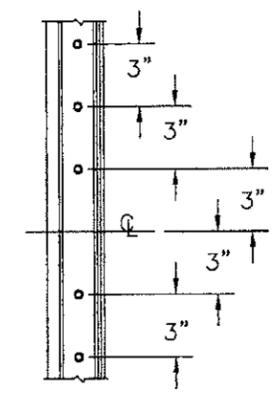
DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 6 OF 23



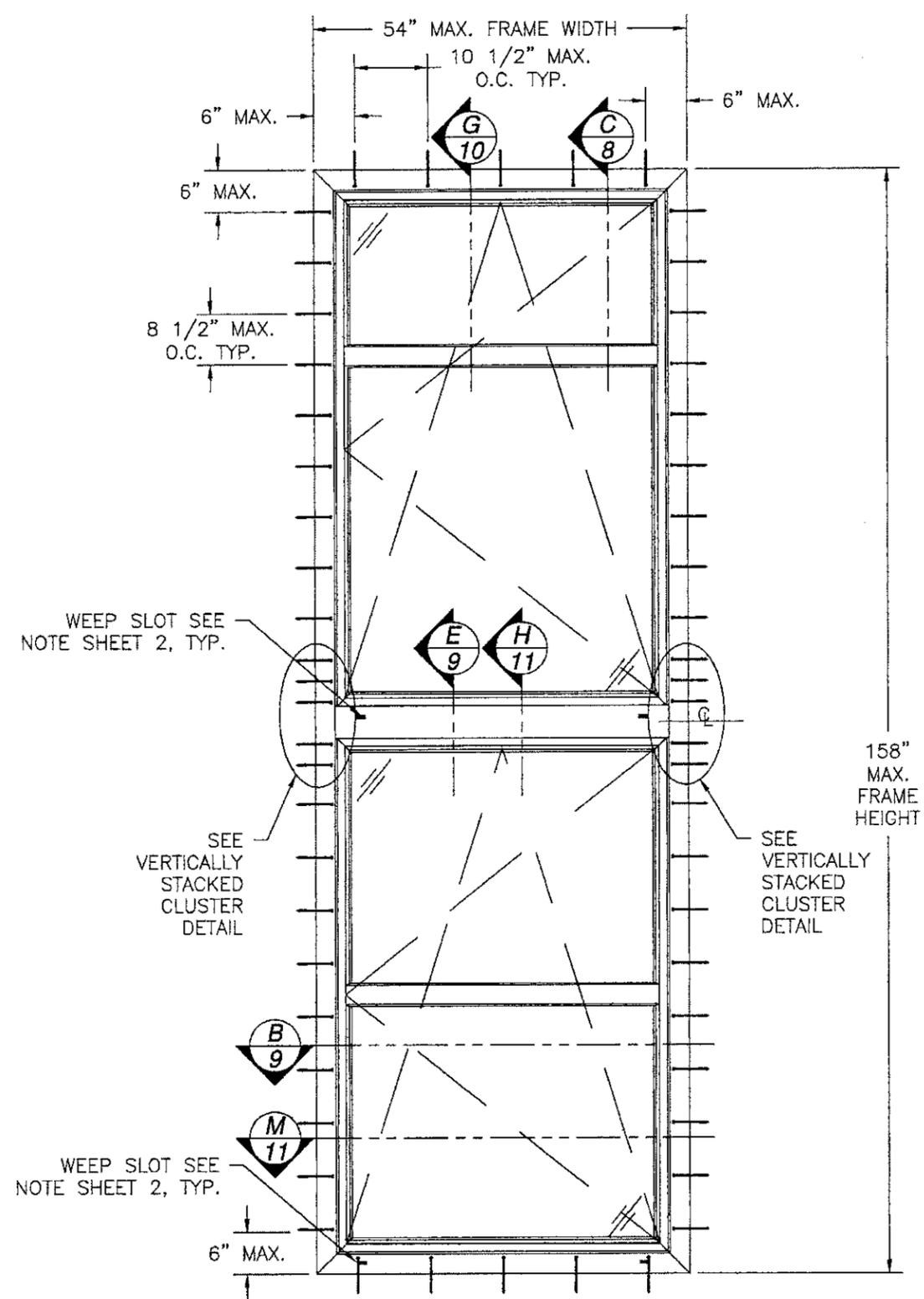
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D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.

NOTES:

- 1) STACKED UNIT MAY CONTAIN A COMBINATION OF EQUAL AND/OR UNEQUAL LITES.
- 2) EQUAL LITE MAXIMUM D.L.O. SIZE: 43 5/8" x 33 3/16".
- 3) UNEQUAL LITE MINIMUM D.L.O. SIZE: 43 5/8" x 19 3/4".
- 4) UNEQUAL LITE MAXIMUM D.L.O. SIZE: 43 5/8" x 46 1/2".
- 5) MAXIMUM SINGLE SASH SIZE: 50" x 76".



**VERTICALLY STACKED
CLUSTER DETAIL**



**SERIES V-100 PVC DUAL ACTION TILT-TURN VERTICALLY STACKED
WINDOW W/TRUE DIVIDED MUNTIN EQUAL AND UNEQUAL LITE
EXTERIOR VIEW**

DESIGN PRESSURE RATING	IMPACT RATING
+ 100.0 PSF - 130.0 PSF	LARGE MISSILE IMPACT

FRAME, SASH, RAIL & MULLION WITH ALUMINUM OR STEEL REINFORCEMENT

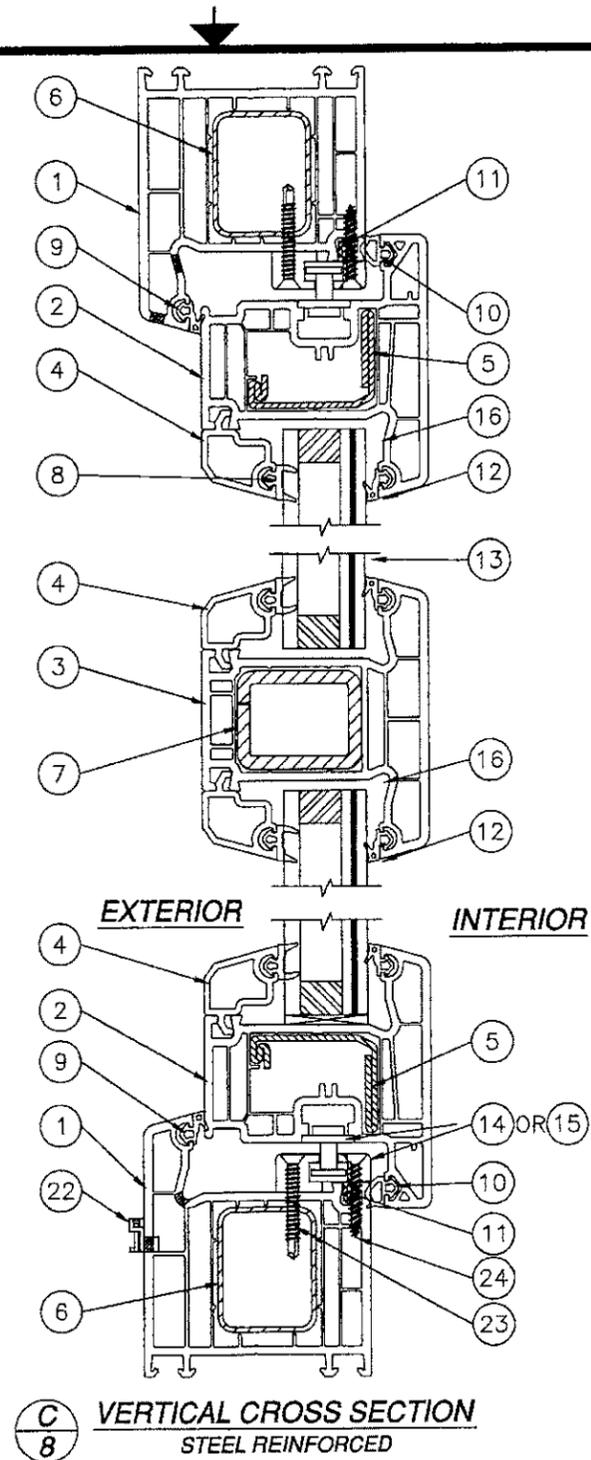
SIGNED: 05/17/2016

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 15-0723.17 Expiration Date 11/24/2020 By <i>[Signature]</i> Miami-Dade Product Control	WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.9400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT ELEVATION AND ANCHORING LAYOUT	
DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 7 OF 23

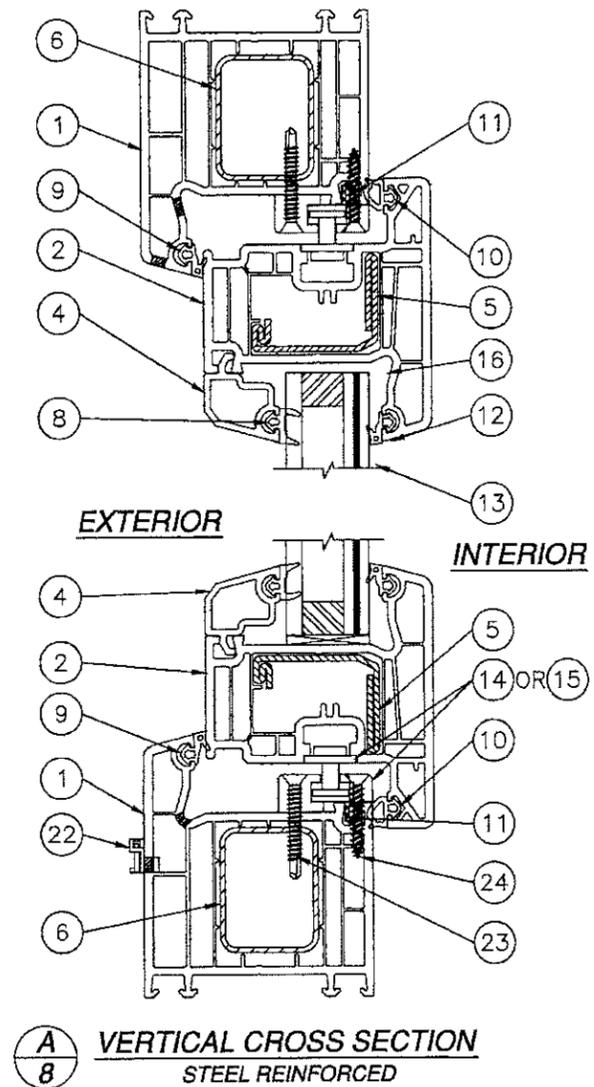
PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	100.214	FRAME, HEAD, SILL AND JAMB	VEKA	RIGID PVC
2	103.228	PANEL FRAME, STILE AND RAIL	VEKA	RIGID PVC
3	102.218	85 MM T MULLION	VEKA	RIGID PVC
4	107.200	1" GLAZING BEAD	VEKA	RIGID PVC
5	113.294.000.000	18GA. SASH REINFORCEMENT	VEKA	G90 GALVAN. STEEL
6	113.271.1 SO M	18GA. FRAME REINFORCEMENT	VEKA	G90 GALVAN. STEEL
7	113.271.400.000 PC	9GA. T MULLION REINFORCEMENT	VEKA	G90 GALVAN. STEEL
8	112.050	GLAZING GASKET	VEKA	EPDM DUROMETR 60
9	112.253	GLAZING GASKET	VEKA	EPDM DUROMETR 60
10	112.245	GLAZING GASKET	VEKA	EPDM DUROMETR 60
11	112.380	FILLER PROFILE	VEKA	EPDM DUROMETR 60
12	W0100-BL-03R	WEATHERSTRIP	RENKO	EPDM 60
13		1" LARGE MISSILE GLASS		
14		MULTI-POINT TILT-TURN HARDWARE	ROTO	
15		MULTI-POINT TILT-TURN HARDWARE	SIEGENIA	
16	SIKAFAST 552	GLAZING COMPOUND	SIKA	URETHANE
17	141.314	CONNECTOR		ZINC DIECAST
18	106.086	SEALING PAD		
19		#10 PFH TEK SCREW		
20	NOT USED			
21	102.238	118 MM T MULLION	VEKA	RIGID PVC
22		WEEP COVER		PLASTIC
23		#8 x 1 1/4" TEK SCREW		
24		M4.1 25mm SCREW		
25	FH-06512	FRAME REINFORCEMENT	KEYMARK	AL 6005A T-61
26	FH-07160	SASH REINFORCEMENT	KEYMARK	AL 6005A T-61
27	FH-06561	T MULLION REINFORCEMENT	KEYMARK	AL 6005A T-61
28	TP990	SPACER SYSTEM (SEE NOTE BELOW)	HELIMA	AL AW-3000
29		SETTING BLOCK	FRANK LOWE	NEOPRENE 80 DURO.

SPACER MATERIAL: TENSILE ULTIMATE STRENGTH, FTU=17KSI
TENSILE YIELD STRENGTH, FTY=12KSI

FOR ILLUSTRATION PURPOSES ONLY
REFER TO SHEETS 13 - 17 FOR INSTALLATION DETAILS.



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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B	ADDED ALUMINUM REINFORCED OPTION	01/22/13	R.L.
C	REVISED PER NEW REQUIREMENTS	08/12/16	R.L.
D	COMPLYING W/FBC 5th EDITION (2014)	05/17/16	R.L.



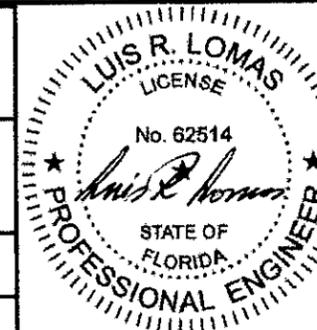
SIGNED: 05/17/2016

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0723.17**
Expiration Date **11/24/2020**
By *[Signature]*
Miami-Dade Product Control

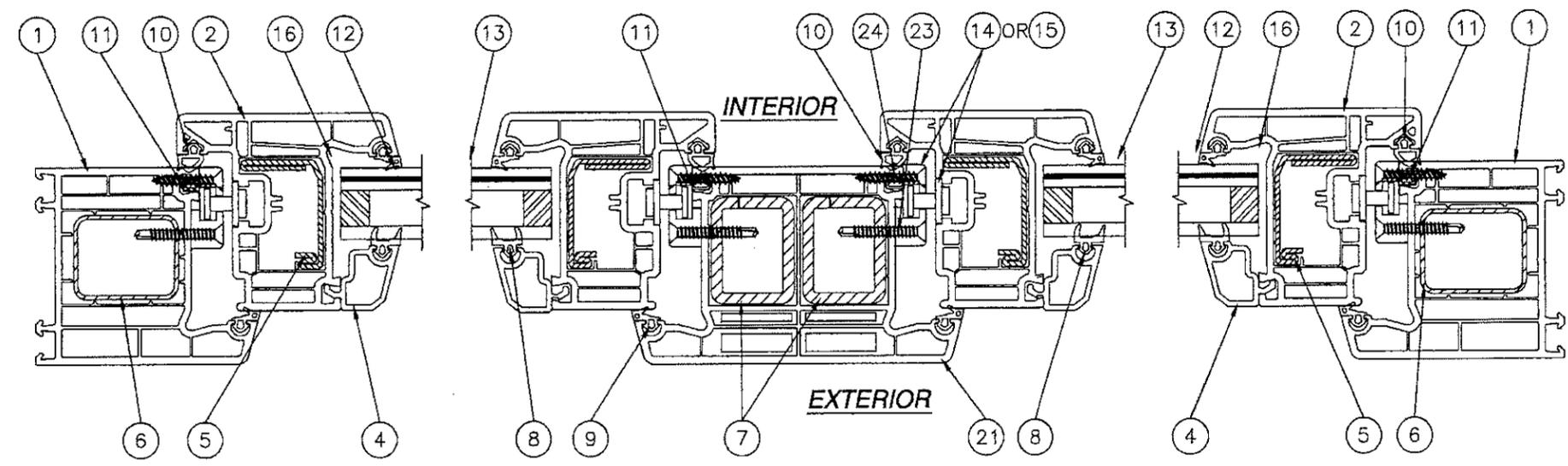
WinDoor 7500 AMSTERDAM DRIVE
INCORPORATED ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505 www.windoorinc.com

SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
BILL OF MATERIALS AND CROSS SECTIONS

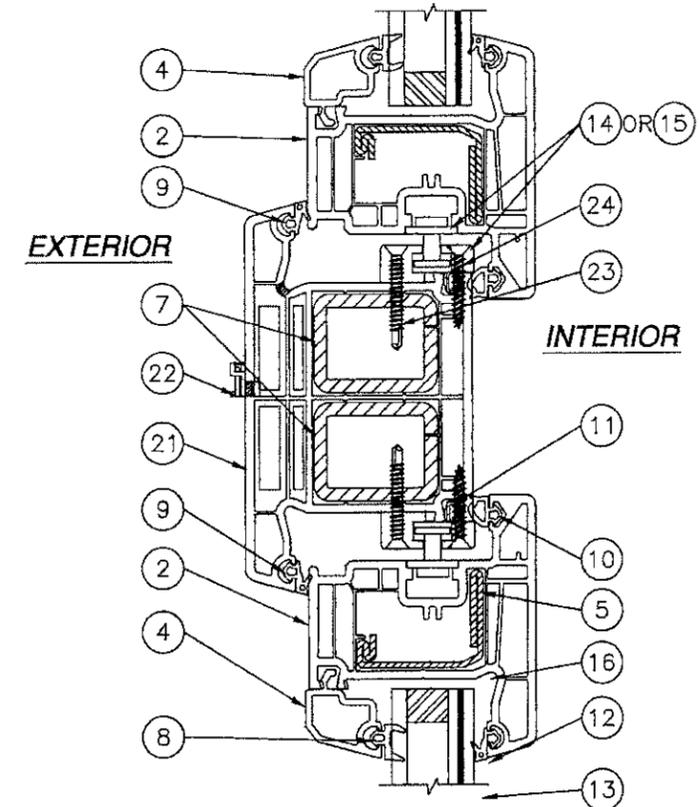
DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 8 OF 23



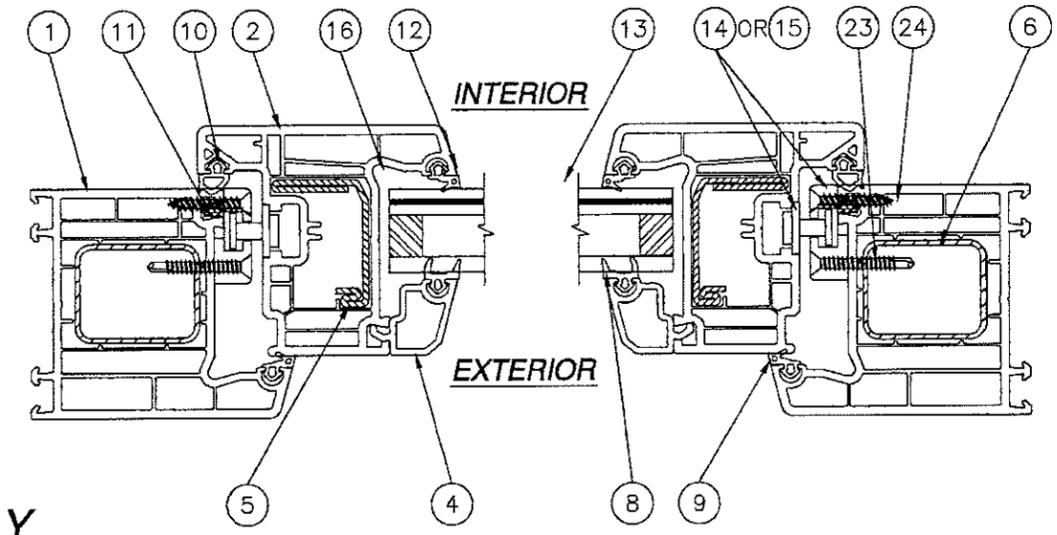
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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D
9 HORIZONTAL CROSS SECTION
STEEL REINFORCED



E
9 VERTICAL CROSS SECTION
STEEL REINFORCED



B
9 HORIZONTAL CROSS SECTION
STEEL REINFORCED

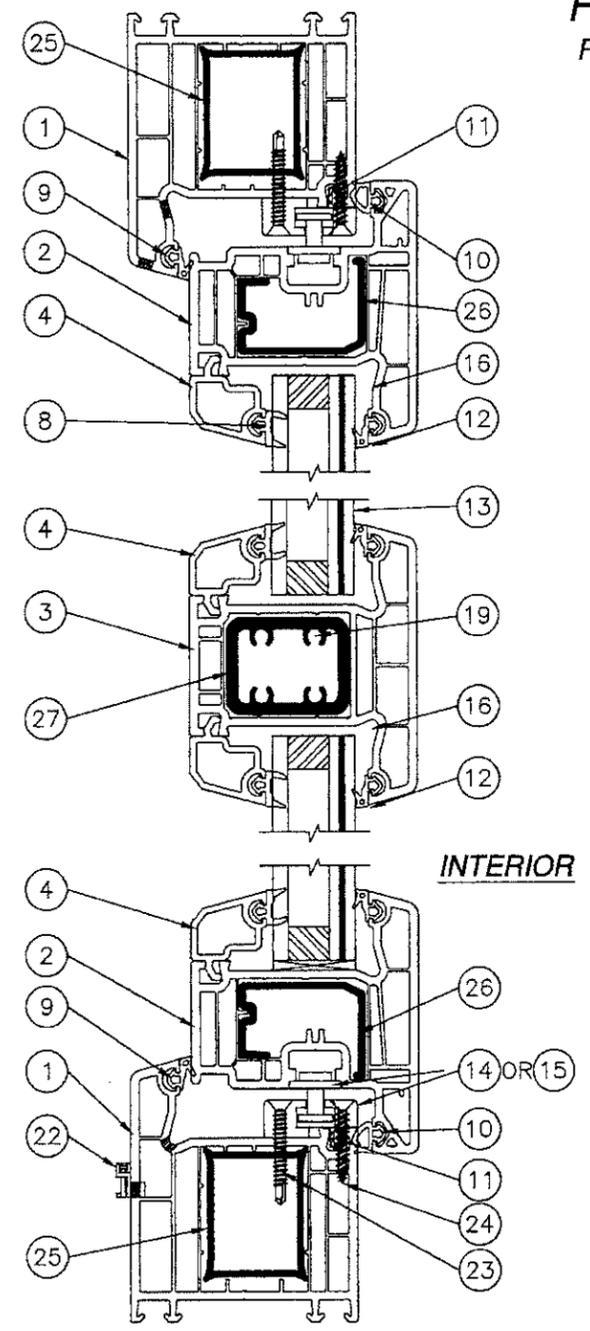
FOR ILLUSTRATION PURPOSES ONLY
REFER TO SHEETS 13 - 17 FOR INSTALLATION DETAILS.

SIGNED: 05/17/2016

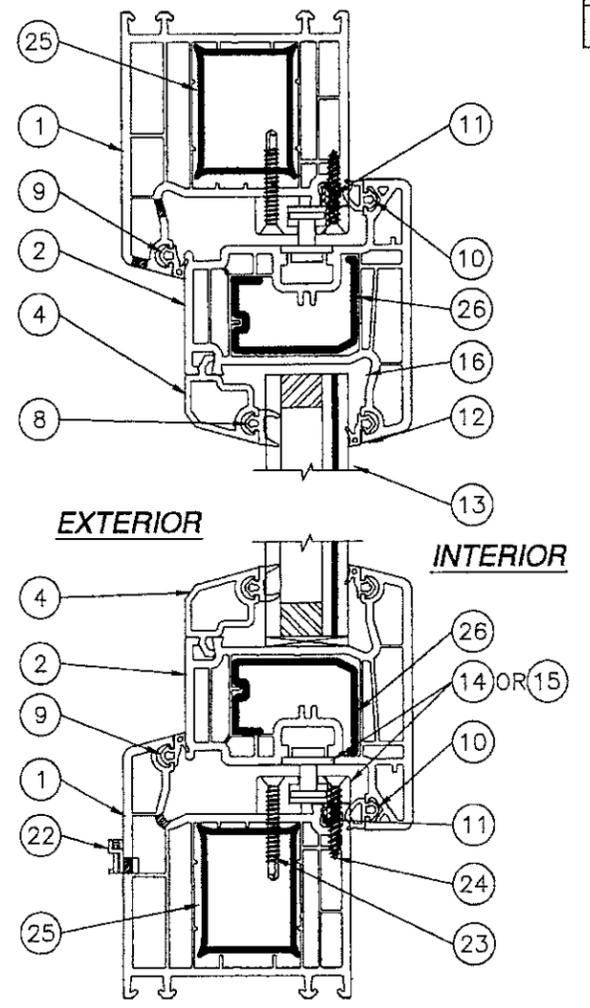
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 15-0723.17 Expiration Date 11/24/2020 By <i>[Signature]</i> Miami-Dade Product Control	WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT CROSS SECTIONS	
DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 9 OF 23

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REVISIONS			
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G VERTICAL CROSS SECTION
 ALUMINUM REINFORCED



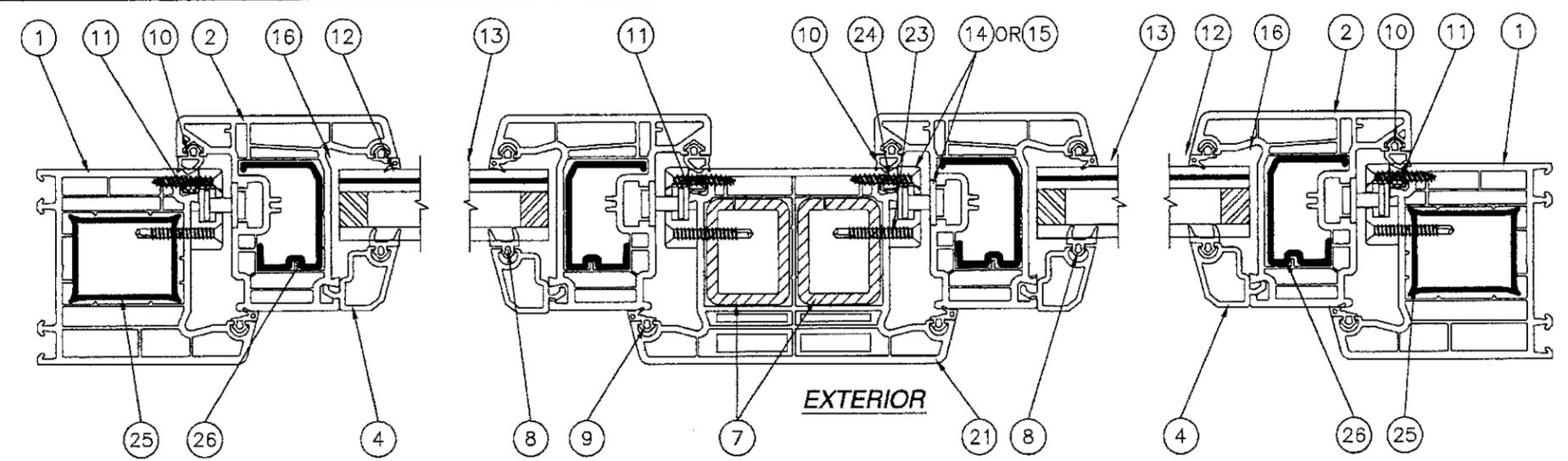
F VERTICAL CROSS SECTION
 ALUMINUM REINFORCED

SIGNED: 05/17/2016

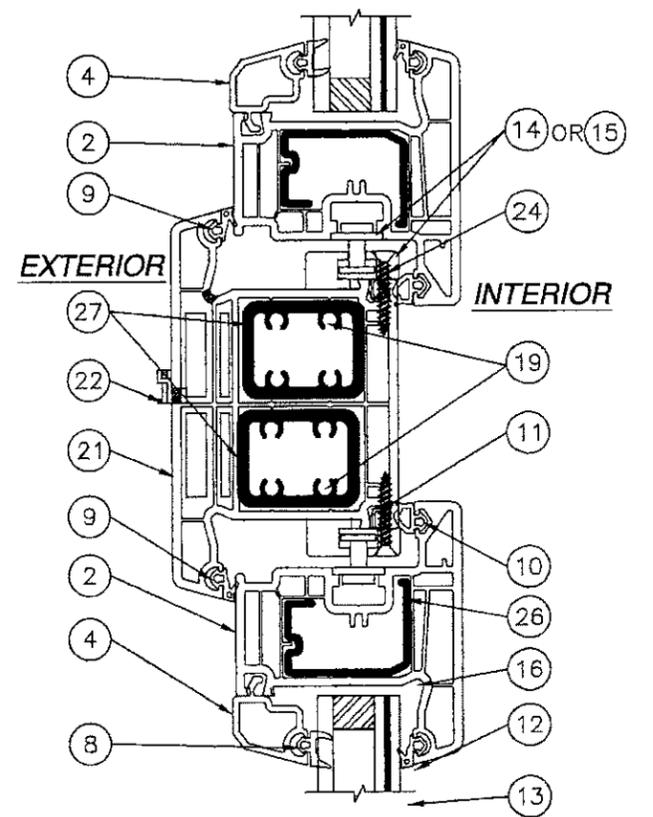
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	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT CROSS SECTIONS		
	DRAWN: TJH SCALE NTS		DWG NO. 08-00991 DATE 05/18/10

REVISIONS

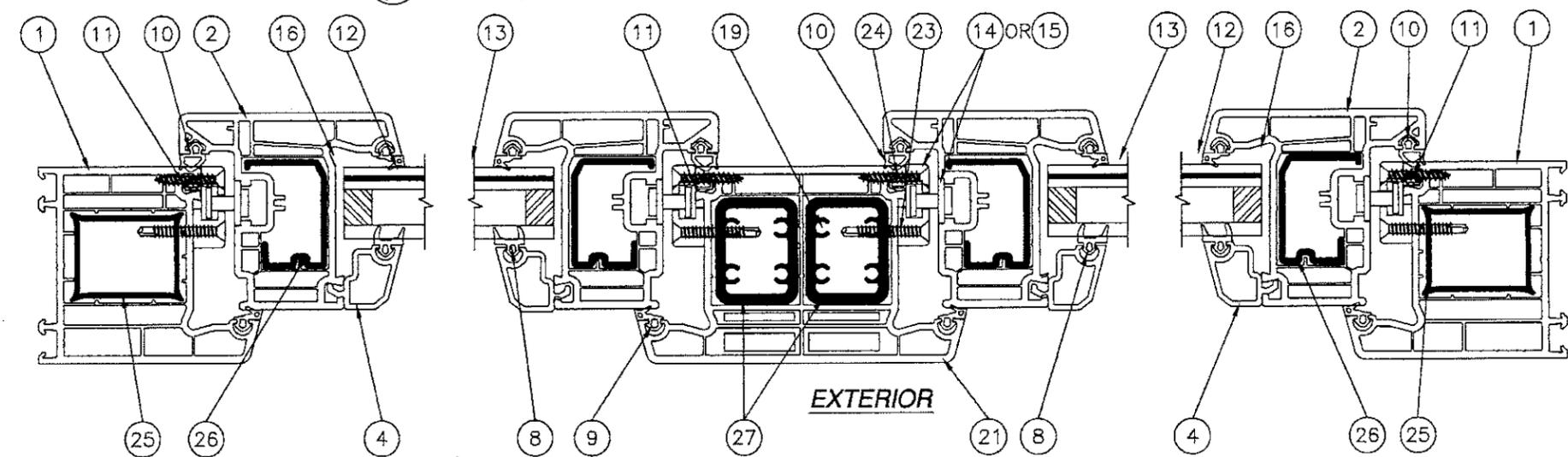
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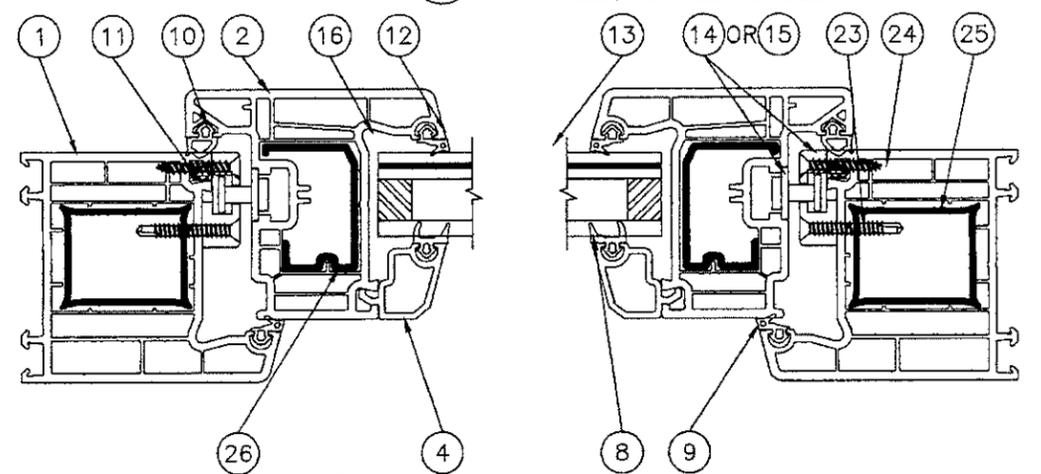
J HORIZONTAL CROSS SECTION
11 STEEL REINFORCED



H VERTICAL CROSS SECTION
11 ALUMINUM REINFORCED



K HORIZONTAL CROSS SECTION
11 ALUMINUM REINFORCED



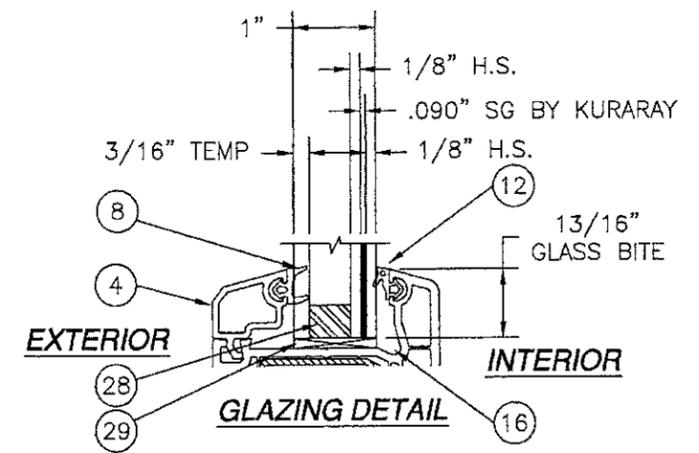
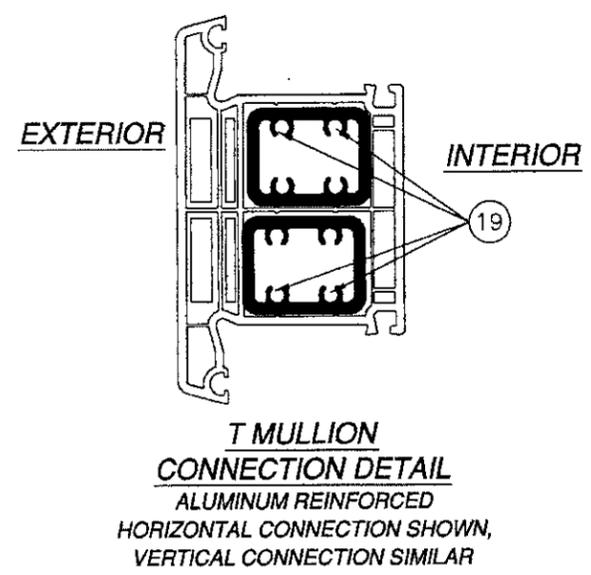
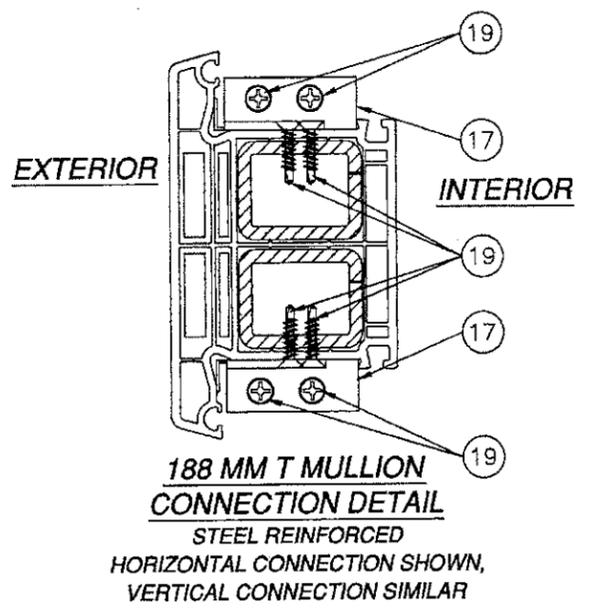
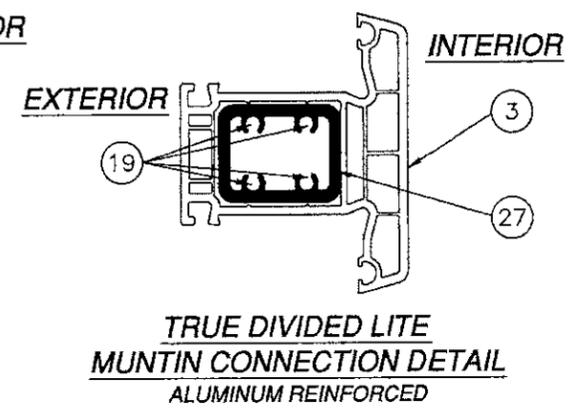
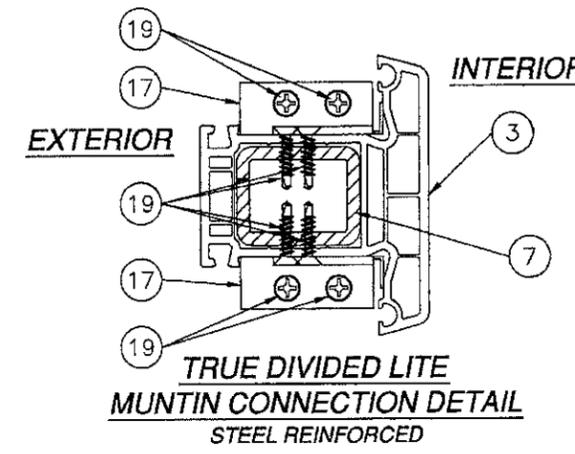
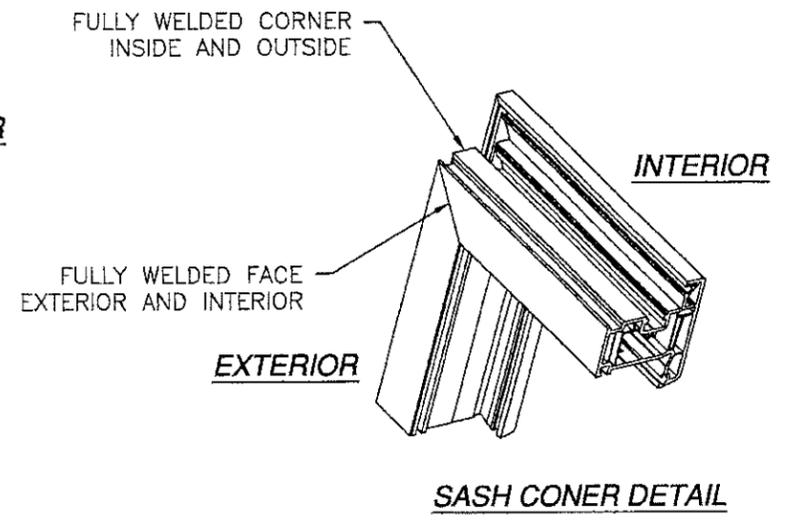
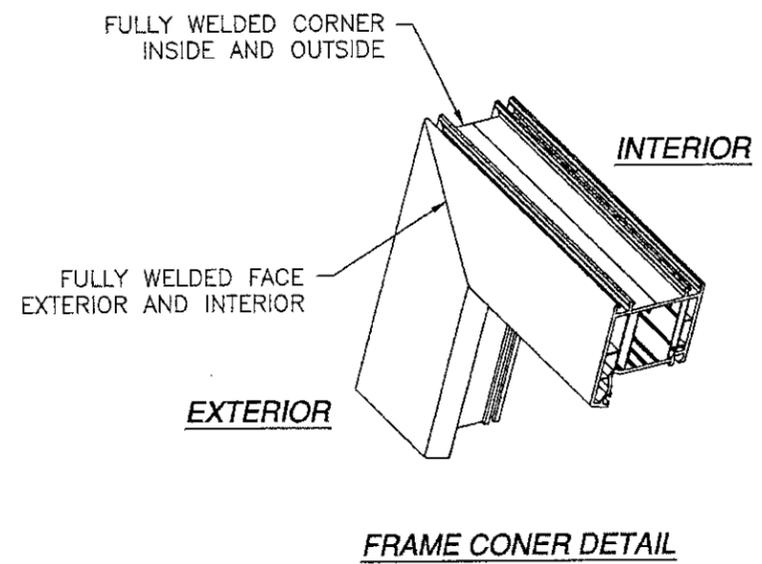
M HORIZONTAL CROSS SECTION
11 ALUMINUM REINFORCED

FOR ILLUSTRATION PURPOSES ONLY
REFER TO SHEETS 13 - 17 FOR INSTALLATION DETAILS.

SIGNED: 05/17/2016

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	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT CROSS SECTIONS	
DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 11 OF 23

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 4, 2010	10/07/10	R.L.
B	ADDED ALUMINUM REINFORCED OPTION	01/22/13	R.L.
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SIGNED: 05/17/2016

PRODUCT REVISED
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NOA-No. **15-0723.17**
Expiration Date **11/24/2020**
By *[Signature]*
Miami-Dade Product Control

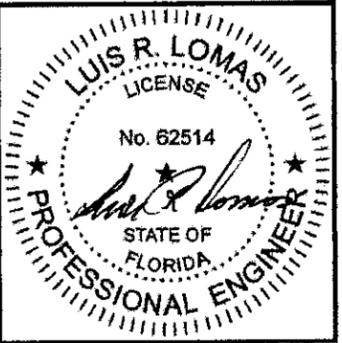
WinDoor
INCORPORATED

7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505 www.windoorinc.com

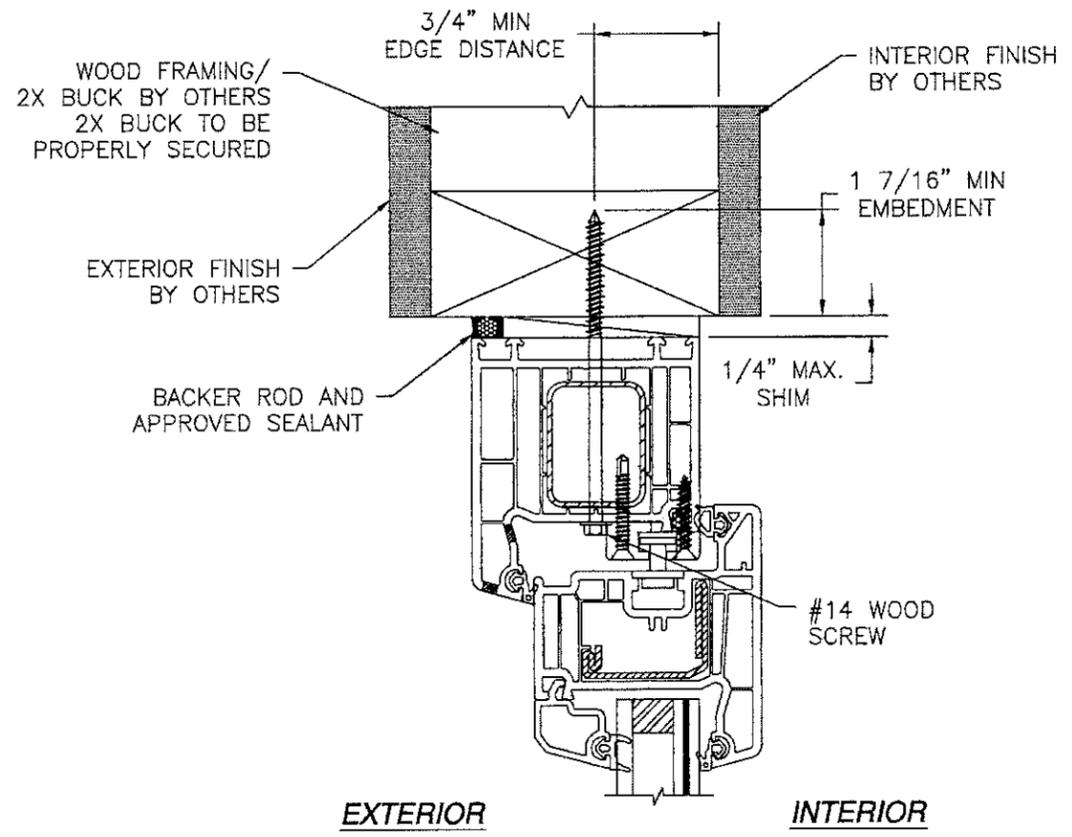
SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
CORNER CONSTRUCTION AND GLAZING DETAILS

DRAWN: TJH DWG NO. 08-00991 REV D

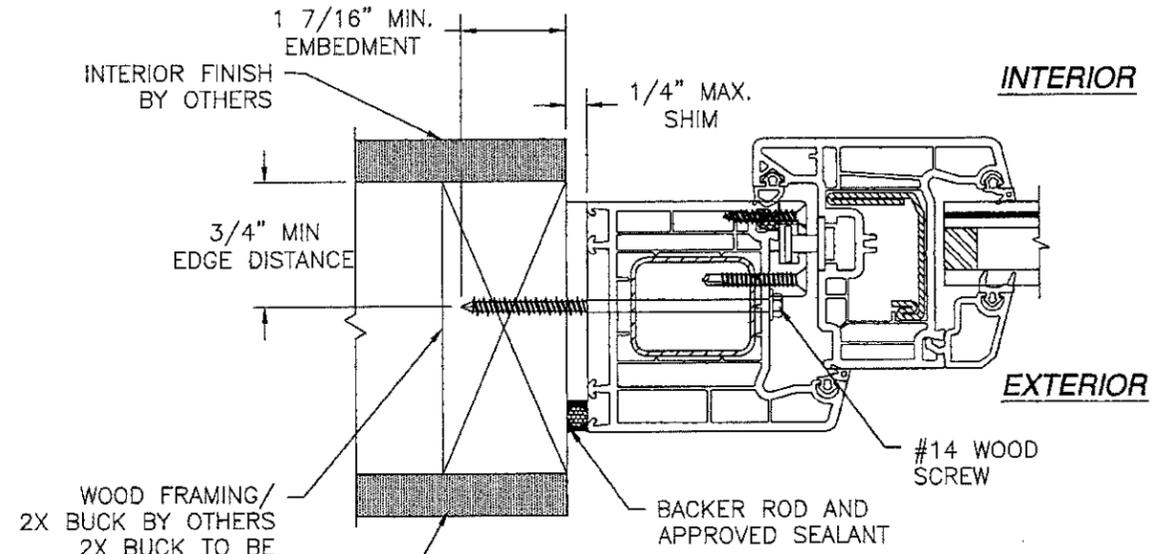
SCALE NTS DATE 05/18/10 SHEET 12 OF 23



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PER DADE LETTER DATED OCT. 4, 2010	10/07/10	R.L.
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VERTICAL CROSS SECTION
WOOD FRAMING/2X BUCK INSTALLATION
SECTION A SHOWN, SECTIONS C AND E SIMILAR
STEEL REINFORCEMENT SHOWN
ALUMINUM REINFORCEMENT SIMILAR

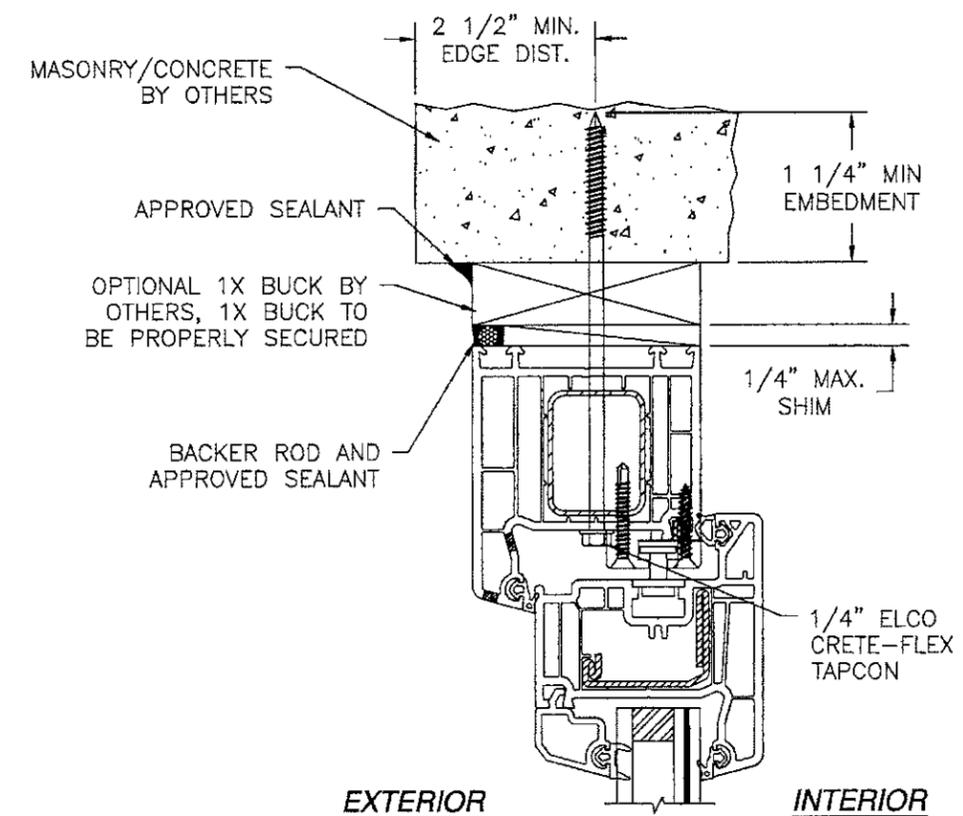


HORIZONTAL CROSS SECTION
WOOD FRAMING/2X BUCK INSTALLATION
STEEL REINFORCEMENT SHOWN
ALUMINUM REINFORCEMENT SIMILAR

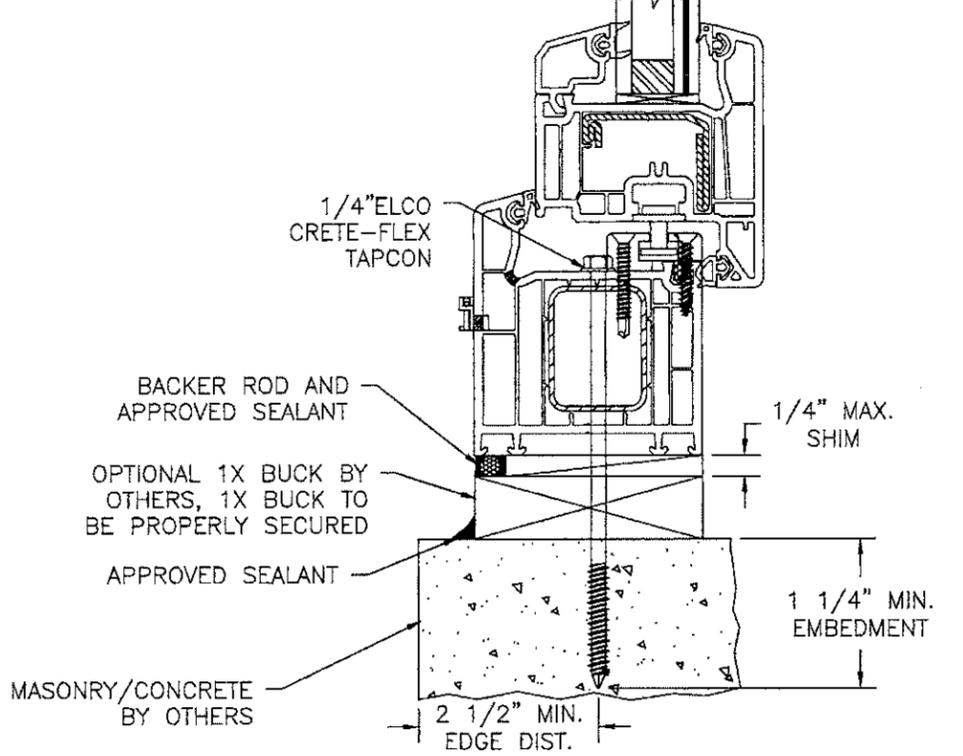
- NOTES:**
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 05/17/2016

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	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT INSTALLATION DETAILS	
DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 13 OF 23

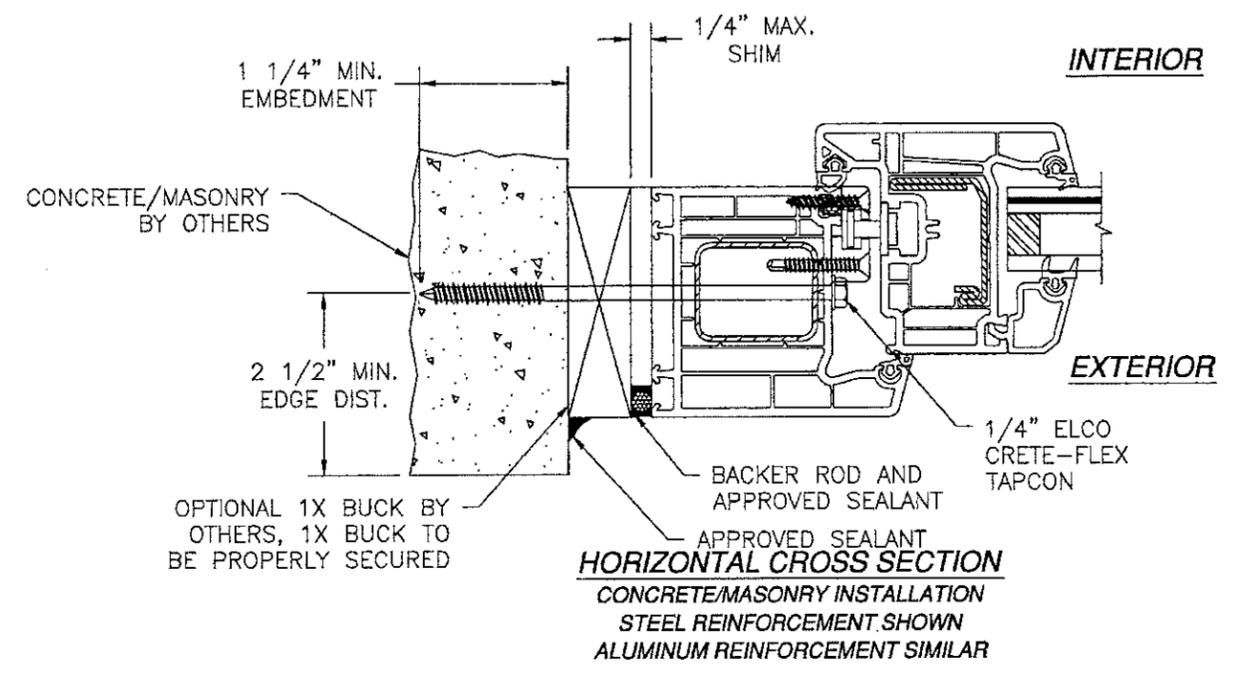


VERTICAL CROSS SECTION
 CONCRETE/MASONRY INSTALLATION
 SECTION A SHOWN, SECTIONS C AND E SIMILAR
 STEEL REINFORCEMENT SHOWN
 ALUMINUM REINFORCEMENT SIMILAR



HORIZONTAL CROSS SECTION
 CONCRETE/MASONRY INSTALLATION
 STEEL REINFORCEMENT SHOWN
 ALUMINUM REINFORCEMENT SIMILAR

REVISIONS			
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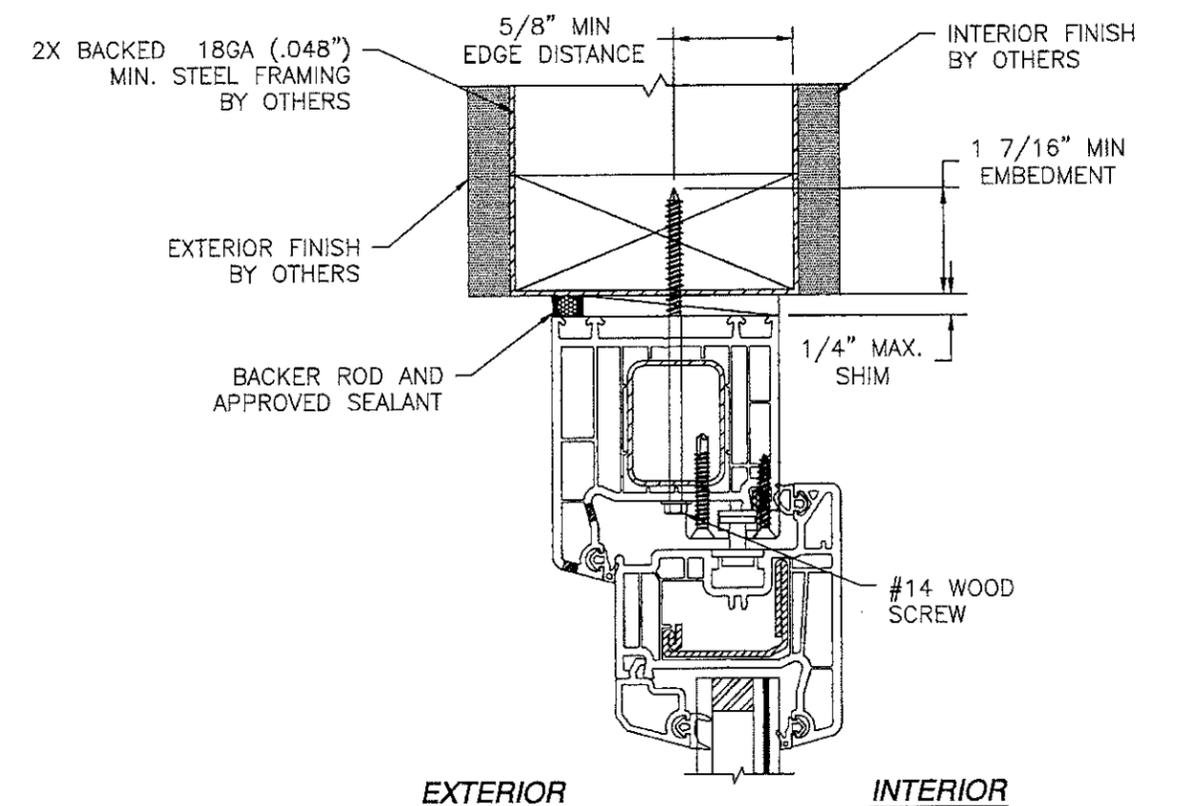


- NOTES:**
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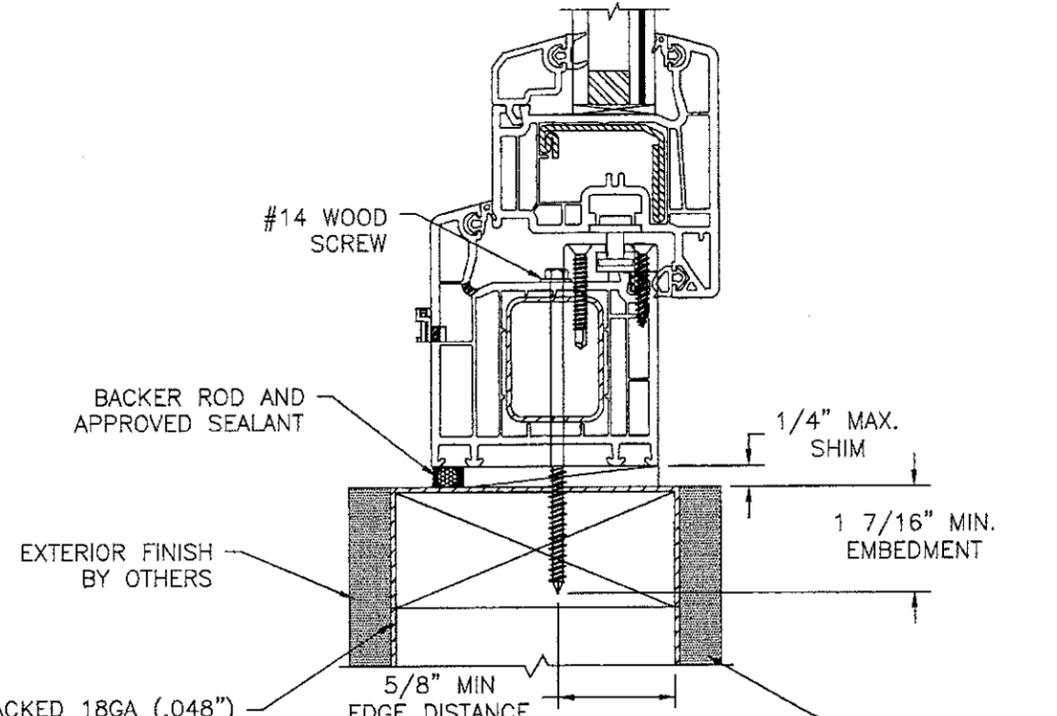
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	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT INSTALLATION DETAILS	
DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 14 OF 23

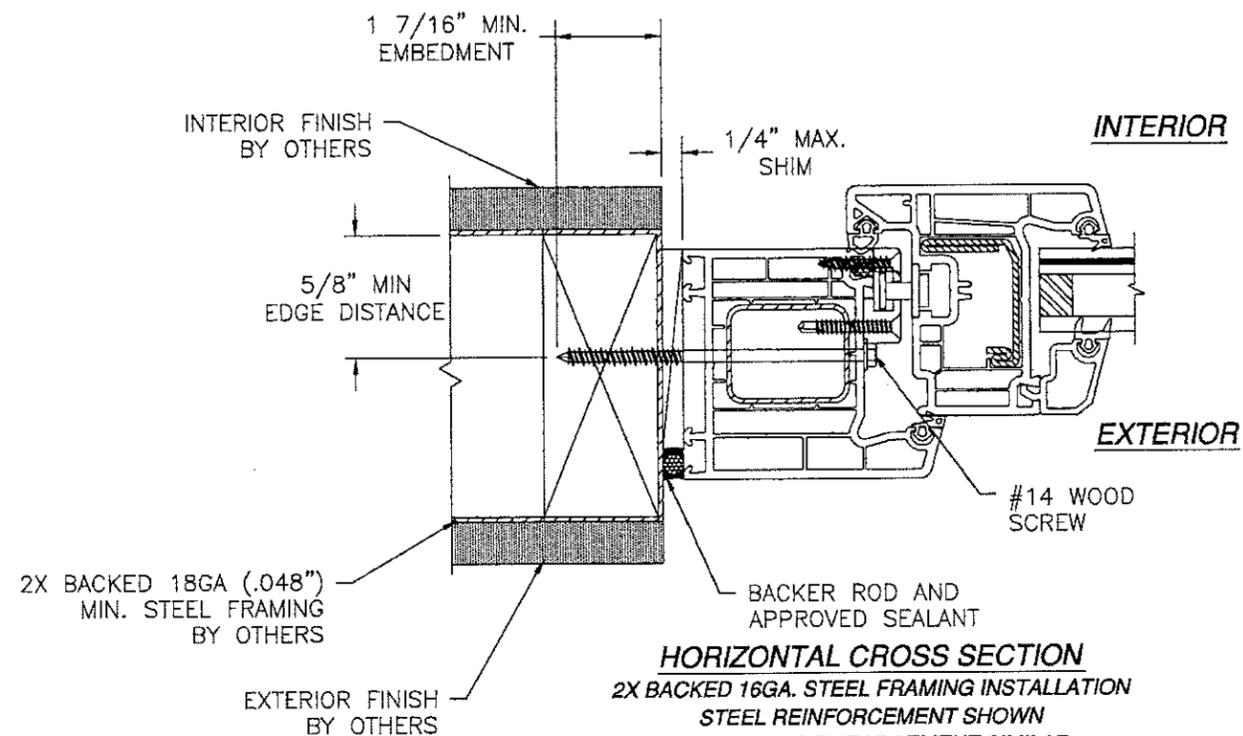
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EXTERIOR INTERIOR



VERTICAL CROSS SECTION
 2X BACKED 16GA. STEEL FRAMING INSTALLATION
 SECTION A SHOWN, SECTIONS C AND E SIMILAR
 STEEL REINFORCEMENT SHOWN
 ALUMINUM REINFORCEMENT SIMILAR



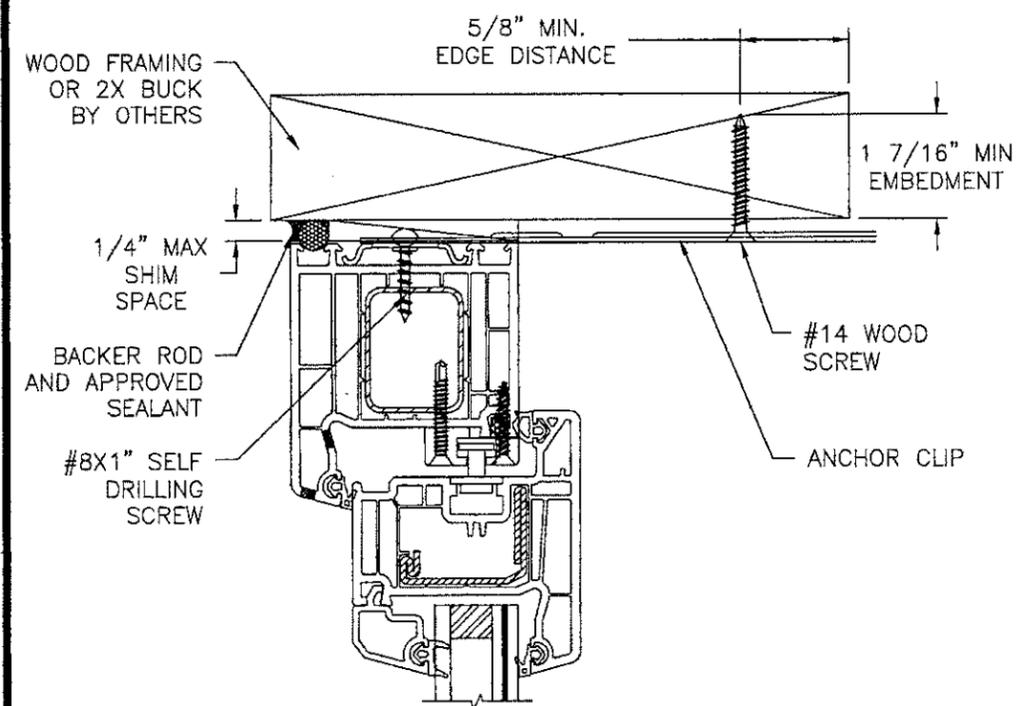
HORIZONTAL CROSS SECTION
 2X BACKED 16GA. STEEL FRAMING INSTALLATION
 STEEL REINFORCEMENT SHOWN
 ALUMINUM REINFORCEMENT SIMILAR

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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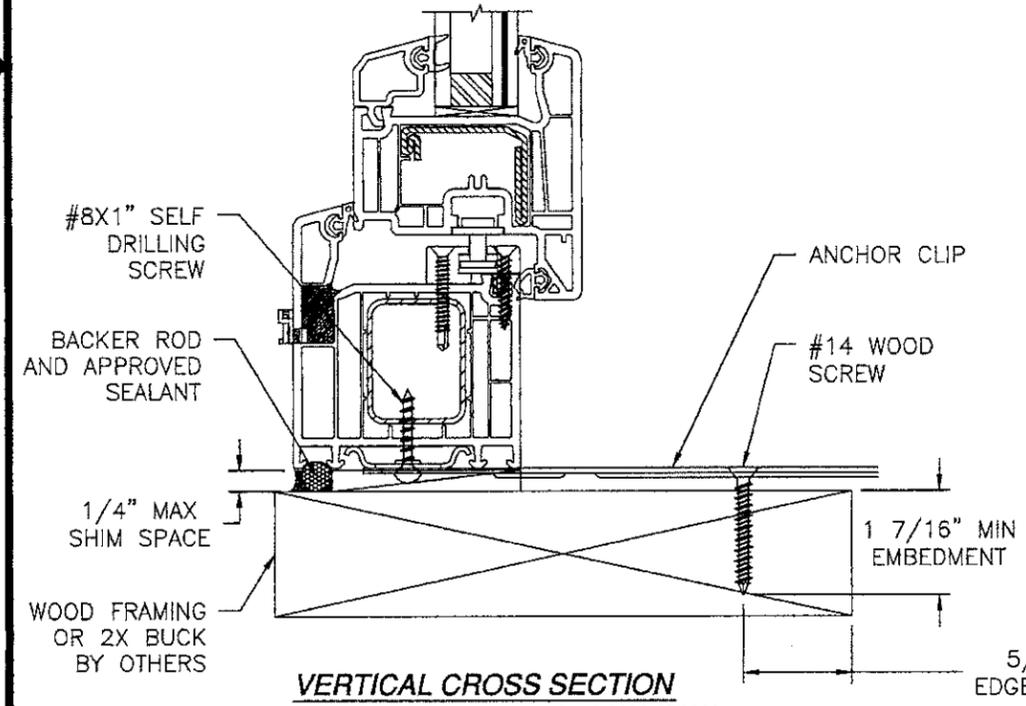
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DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 15 OF 23

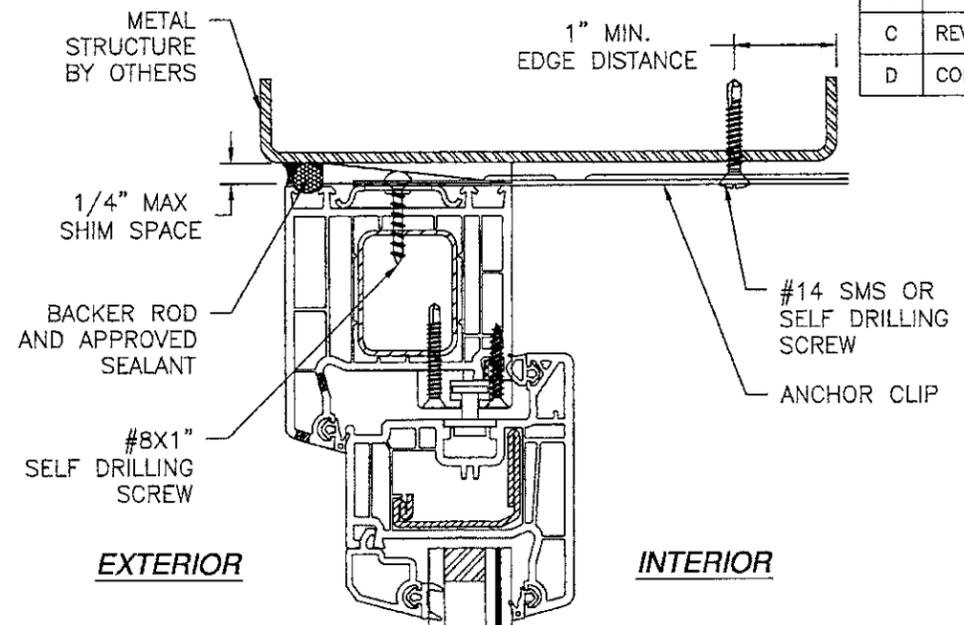
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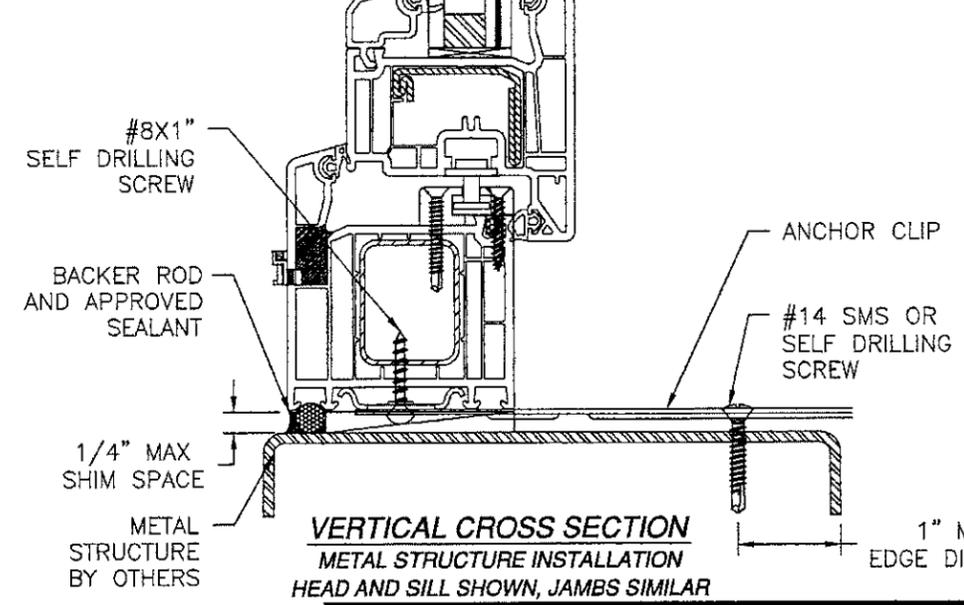
EXTERIOR INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR



EXTERIOR INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
HEAD AND SILL SHOWN, JAMBS SIMILAR

- NOTES:
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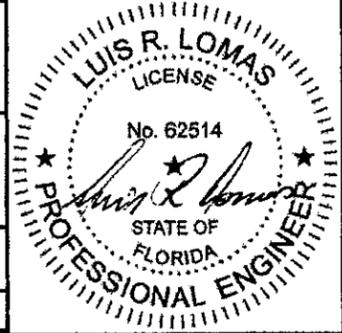
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By *[Signature]*
Miami-Dade Product Control

WinDoor
INCORPORATED
7500 AMSTERDAM DRIVE
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www.windoorinc.com

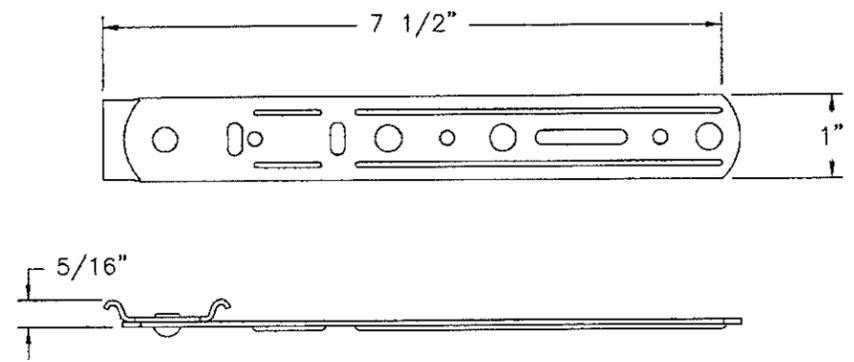
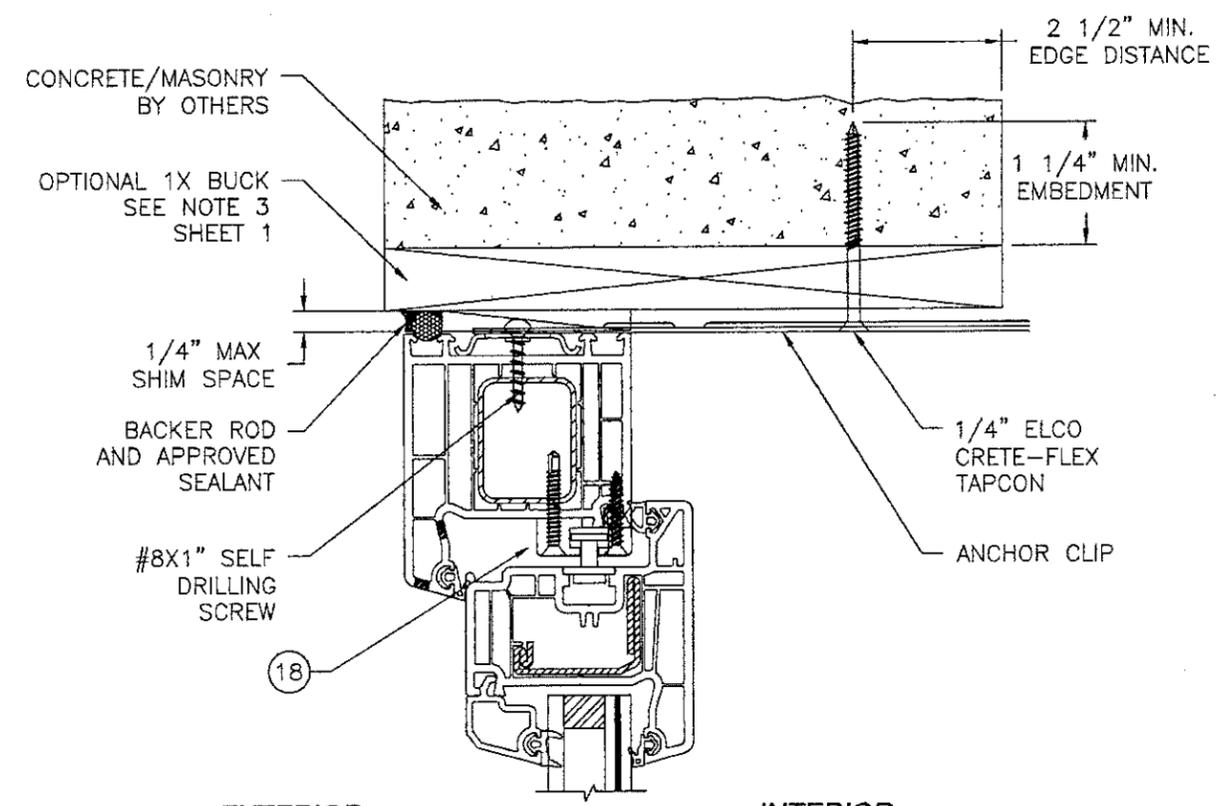
SERIES V-100 PVC DUAL ACTION TILT-TURN
WINDOW - LARGE MISSILE IMPACT
INSTALLATION DETAILS

DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 16 OF 23

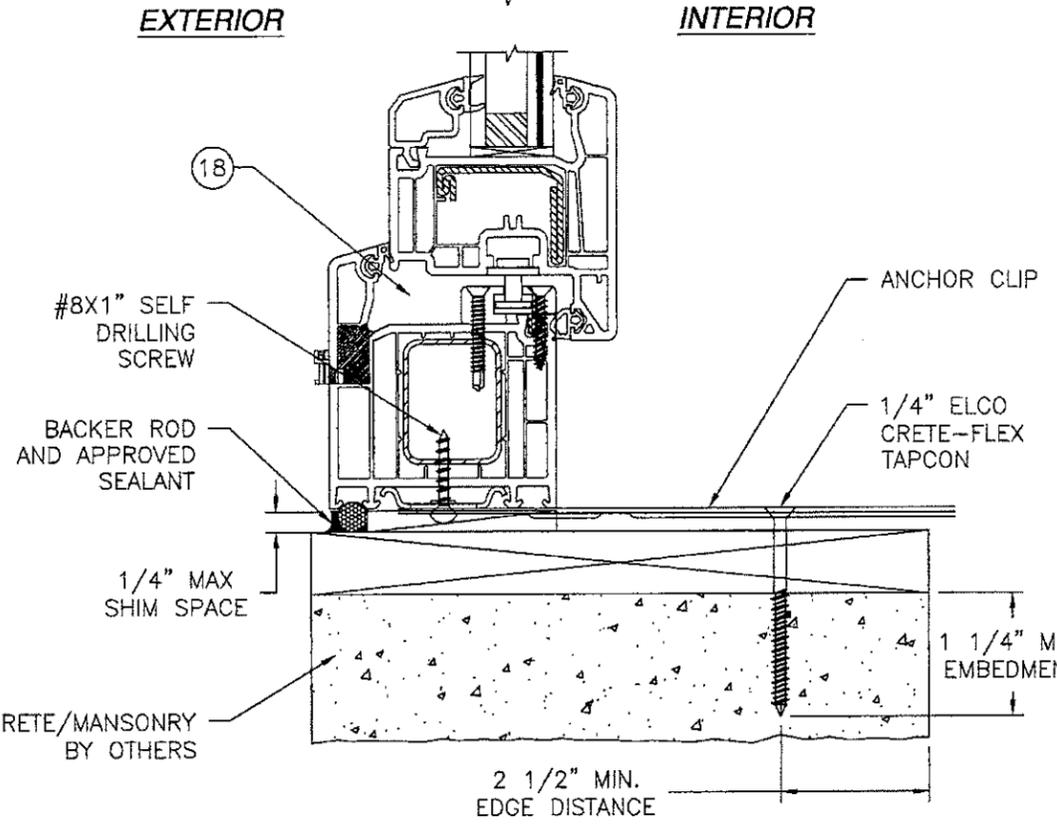
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⑧ ANCHOR CLIP
G90 GALVANIZED STEEL .058" THICK



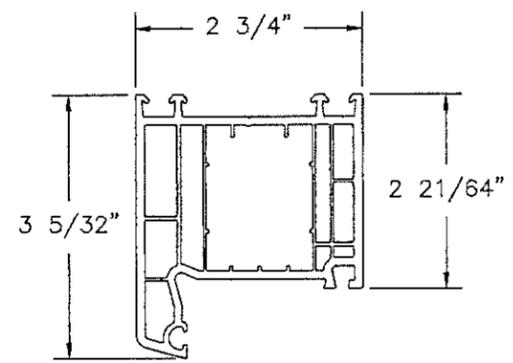
VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
HEAD AND SILL, JAMBS SIMILAR

- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

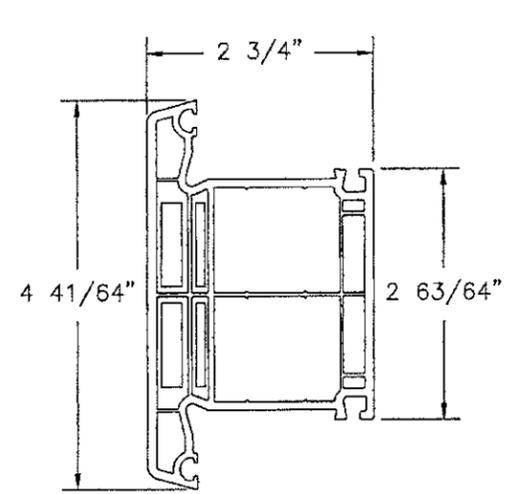
SIGNED: 05/17/2016

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 15-0723.17 Expiration Date 11/24/2020 By <i>[Signature]</i> Miami-Dade Product Control	WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT INSTALLATION DETAILS	
DRAWN: TJH SCALE NTS	DWG NO. 08-00991 DATE 05/18/10	REV D SHEET 17 OF 23

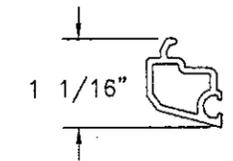
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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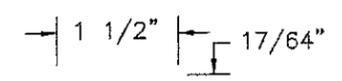
① **FRAME, HEAD, JAMB AND SILL**
WHITE RIGID PVC .110" THICK



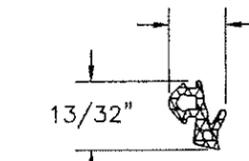
②① **118 MM T MULLION**
WHITE RIGID PVC .110" THICK



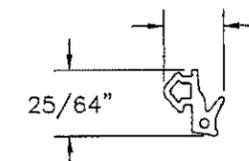
④ **1" GLAZING BEAD**
WHITE RIGID PVC .075" THICK



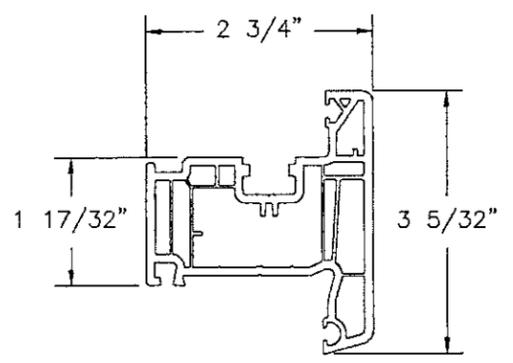
②② **RIGID FILLER**
RIGID PVC



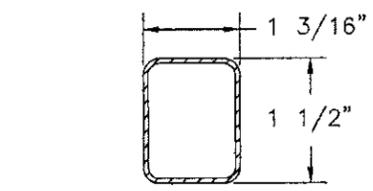
⑨ **GLAZING GASKET**
EPDM DUROMETER 60



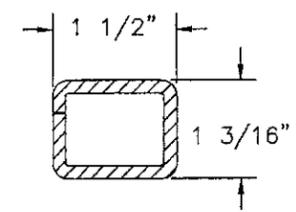
⑫ **WEATHERSTRIP**
EPDM DUROMETER 60



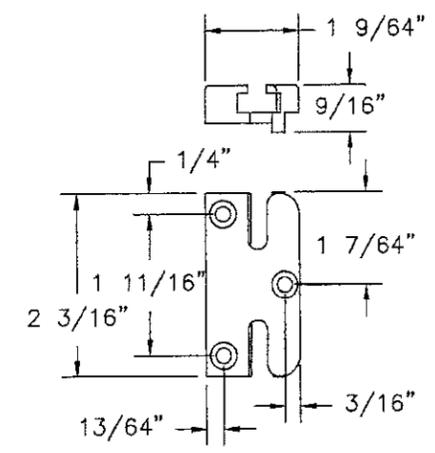
② **PANEL FRAME, STILE AND RAIL**
WHITE RIGID PVC .110" THICK



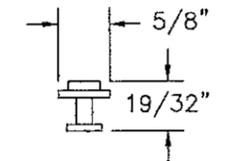
⑥ **18GA. FRAME REINFORCEMENT**
G90 GALVANIZED STEEL .051" THICK MIN.



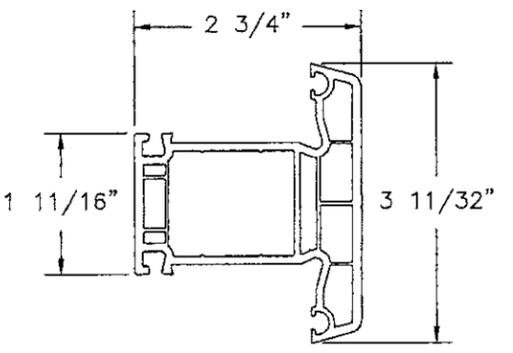
⑦ **9GA. T MULLION REINFORCEMENT**
G90 GALVANIZED STEEL .157" THICK MIN.



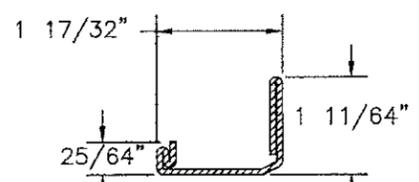
KEEPER



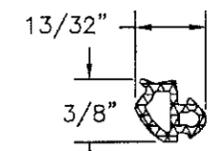
MUSHROOM CAM



② **85 MM T MULLION**
WHITE RIGID PVC .110" THICK

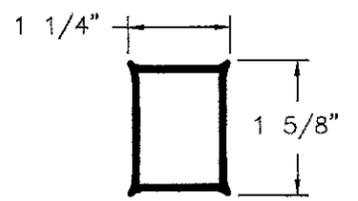


⑤ **18GA. SASH REINFORCEMENT**
G90 GALVANIZED STEEL .051" THICK MIN.

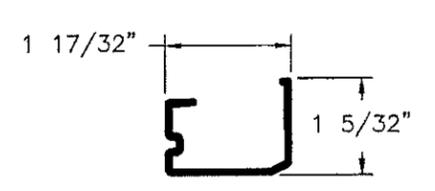


⑩ **GLAZING GASKET**
EPDM DUROMETER 60

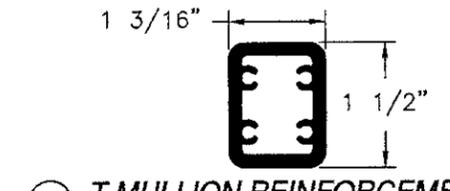
⑮ OR ⑭ **MULTI-POINT TILT HARDWARE**
ROTO OR SIEGENIA



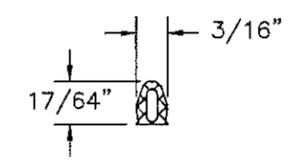
⑮ **FRAME REINFORCEMENT**
ALUMINUM 6005A-T61.080" THICK



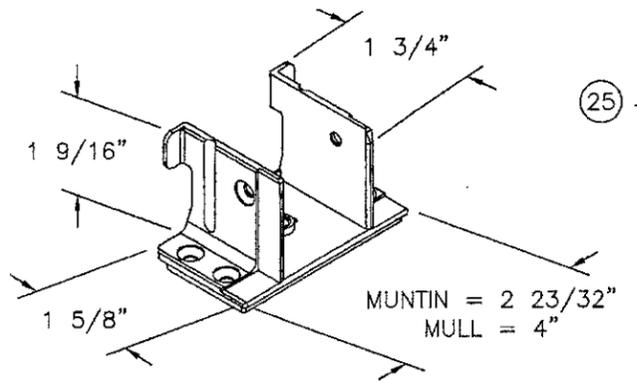
⑮ **SASH REINFORCEMENT**
ALUMINUM 6005A-T61.080" THICK



⑮ **T MULLION REINFORCEMENT**
ALUMINUM 6005A-T61.150" THICK



⑪ **FILLER PROFILE**
EPDM DUROMETER 60



⑮ **CONNECTOR**
ZINC DIECAST

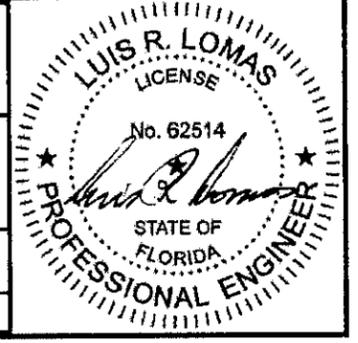
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Miami-Dade Product Control

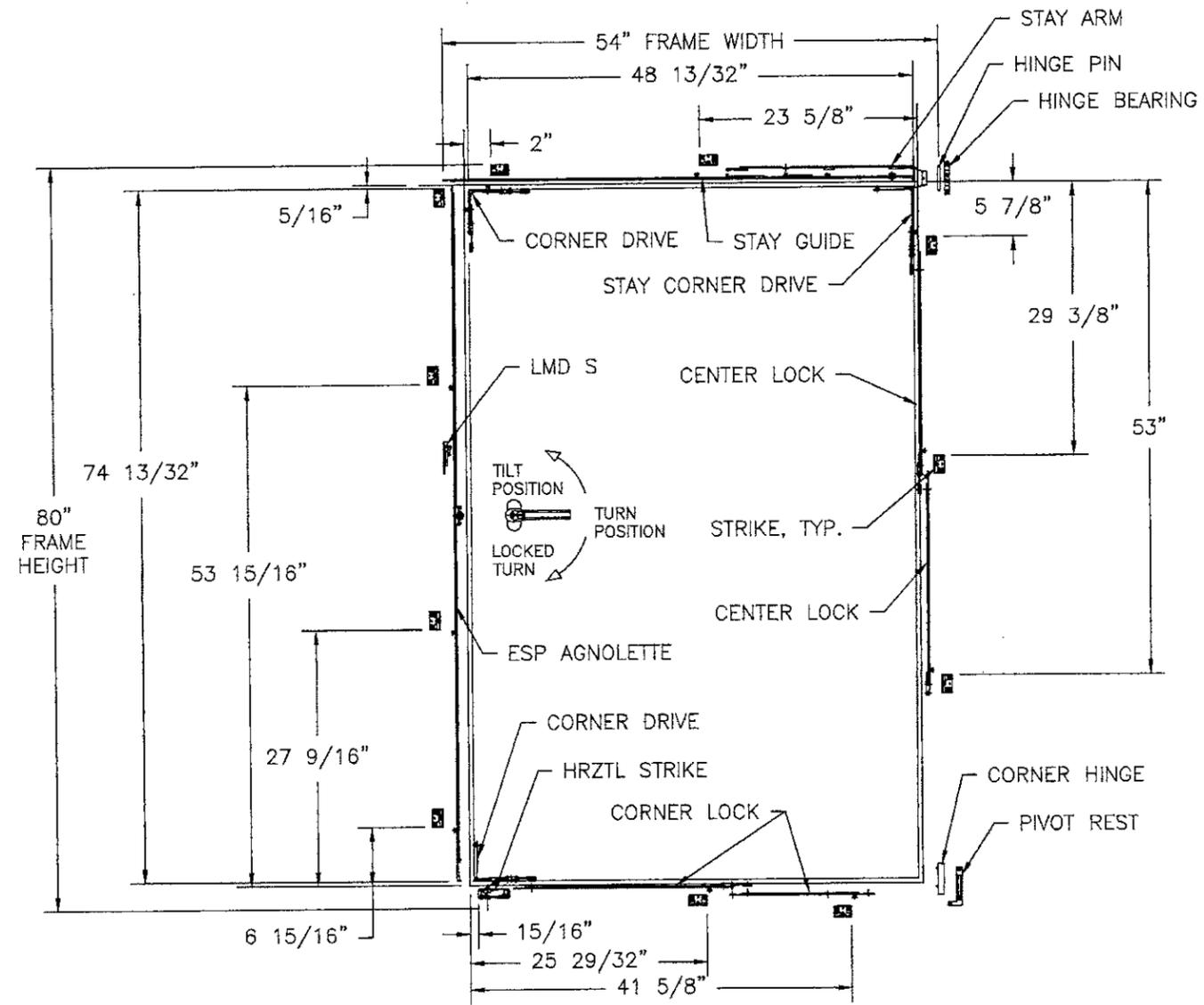
WinDoor
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT COMPONENTS

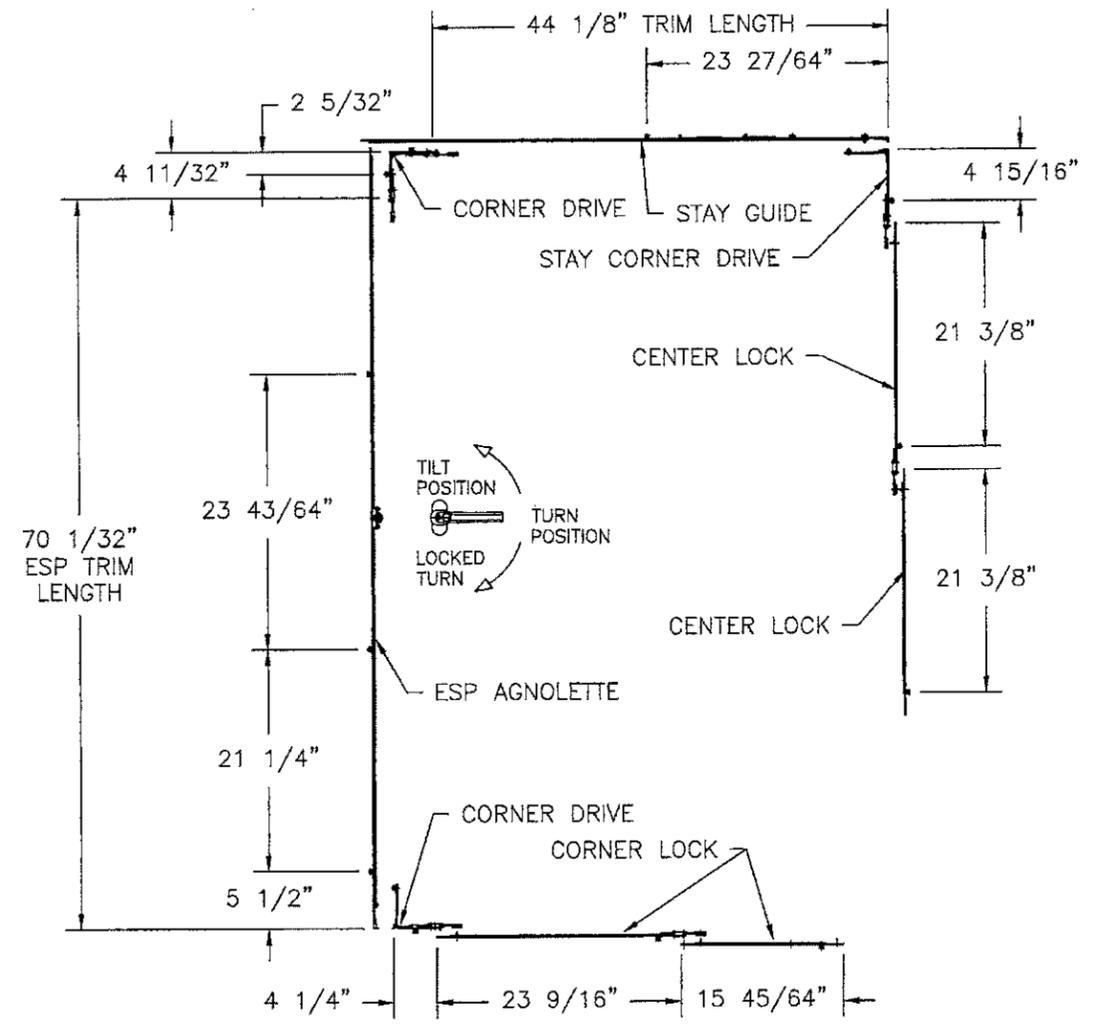
DRAWN: TJH
DWG NO. 08-00991
SCALE NTS
DATE 05/18/10
SHEET 18 OF 23



REVISIONS			
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FRAME HARDWARE LAYOUT
ROTO HARDWARE INTERIOR VIEW



SASH HARDWARE LAYOUT
ROTO HARDWARE INTERIOR VIEW

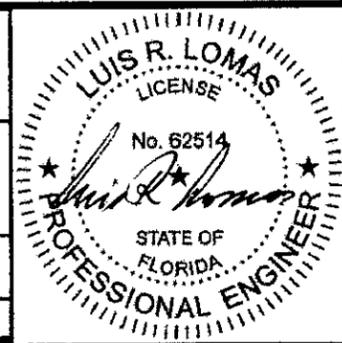
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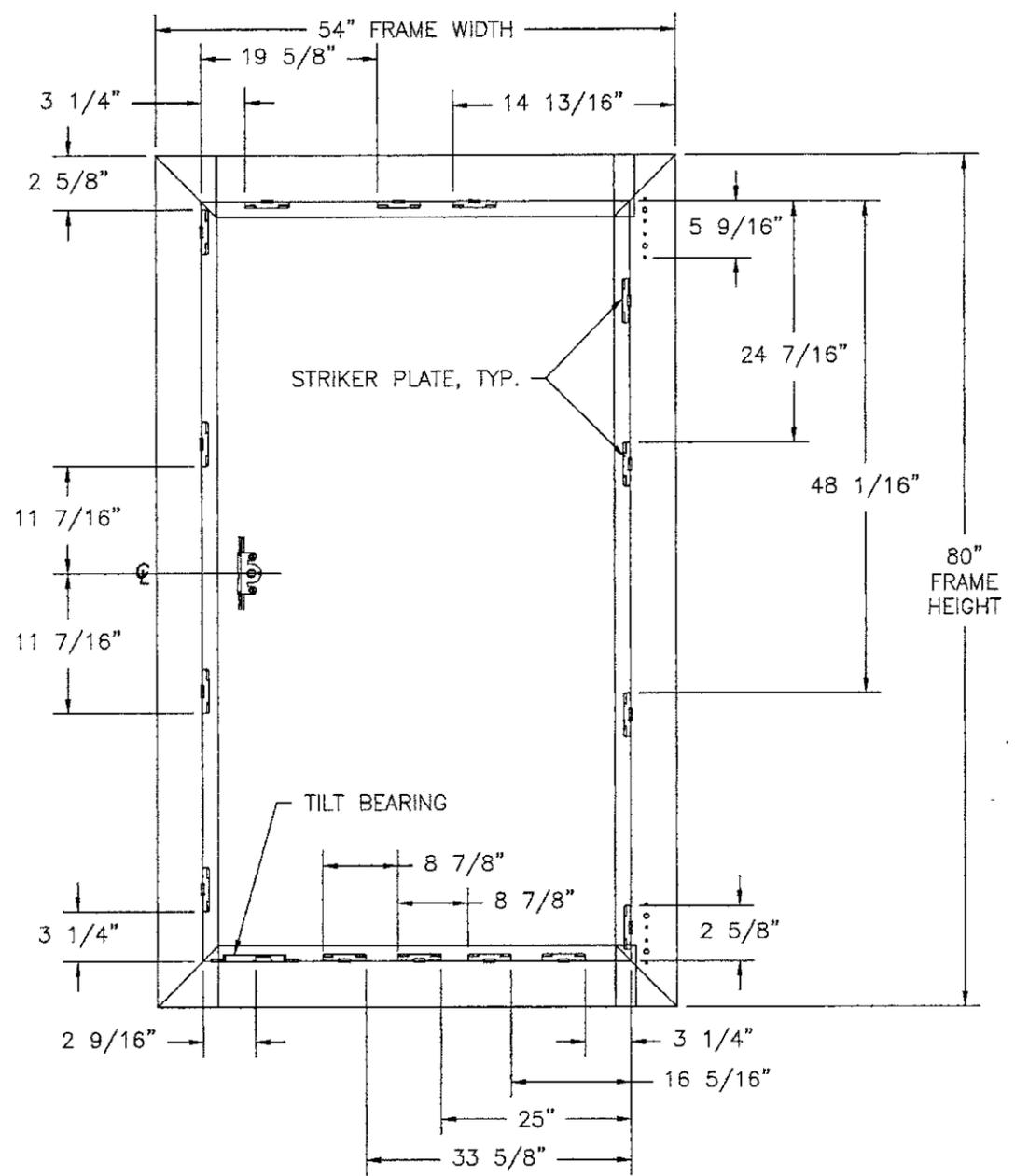
WinDoor INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT SINGLE ROTO HARDWARE LAYOUT

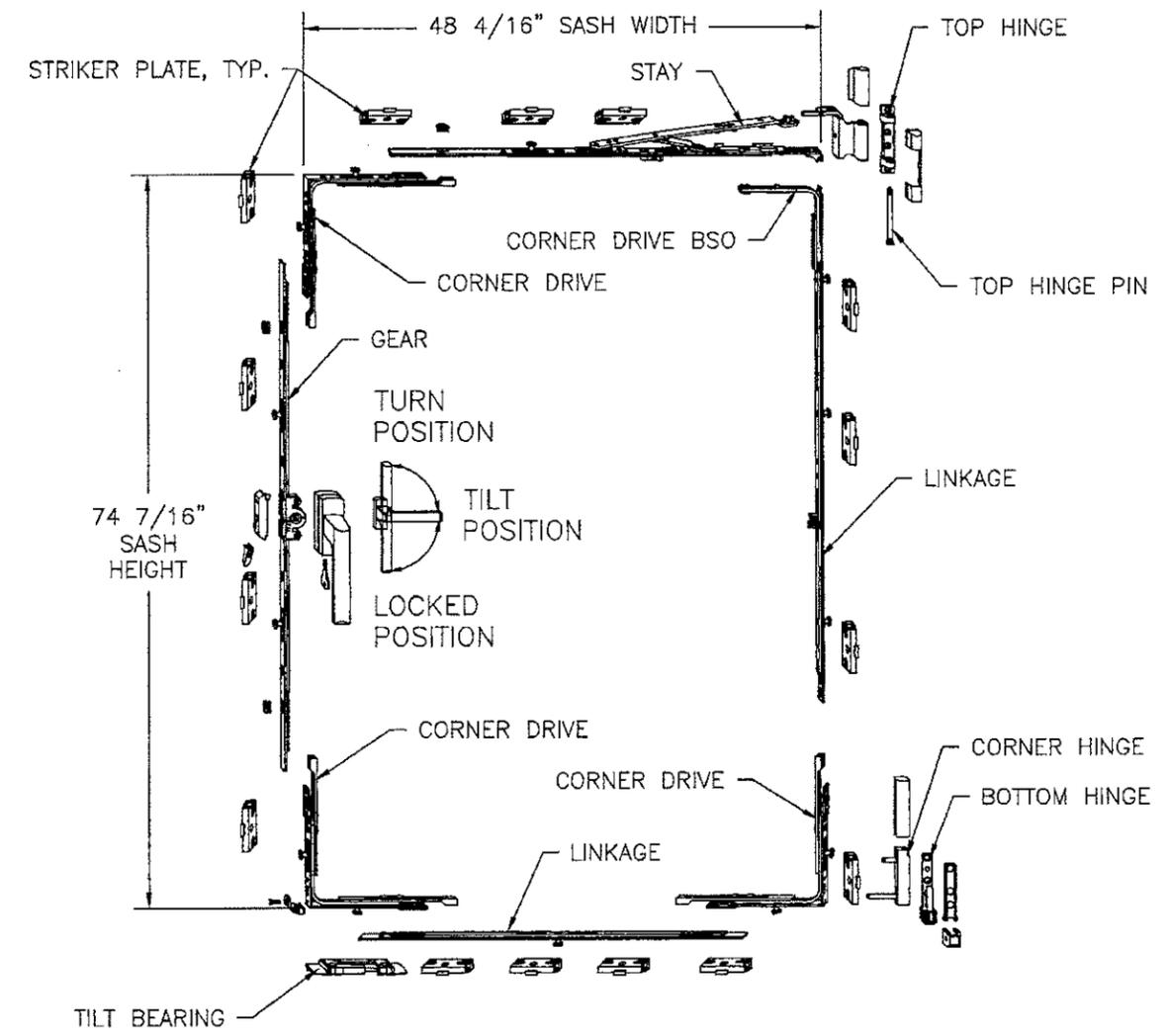
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DWG NO. 08-00991
SCALE NTS
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FRAME HARDWARE LAYOUT
SIEGENIA HARDWARE INTERIOR VIEW



SASH HARDWARE LAYOUT
SIEGENIA HARDWARE INTERIOR VIEW

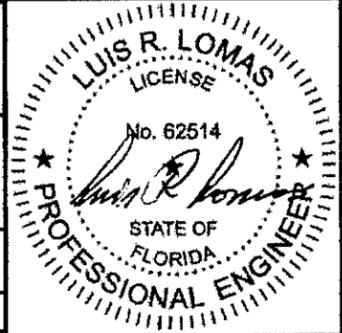
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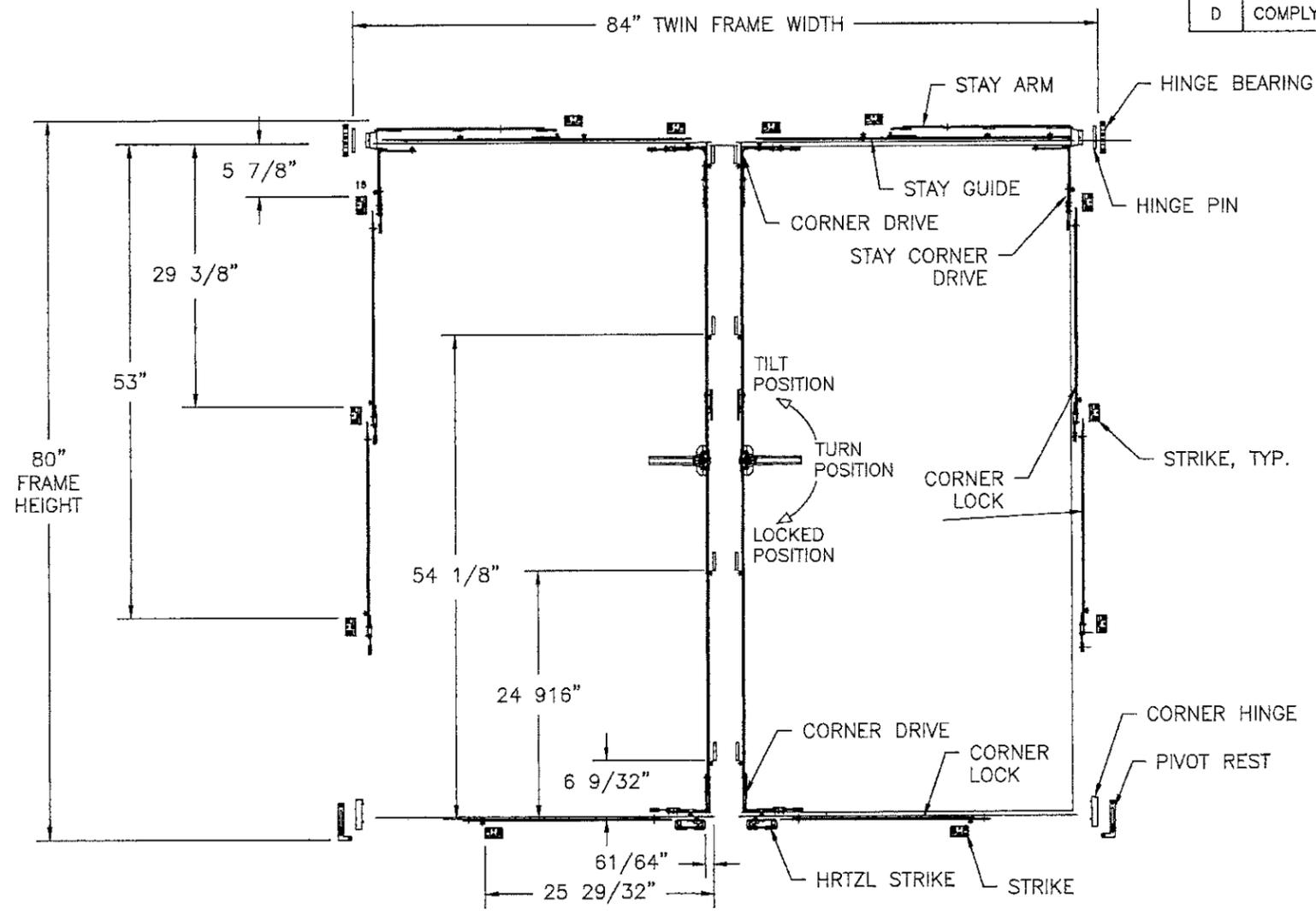
WinDoor INCORPORATED
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Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

SERIES V-100 PVC DUAL ACTION TILT-TURN WINDOW - LARGE MISSILE IMPACT SINGLE SIEGENIA HARDWARE LAYOUT

DRAWN: TJH	DWG NO. 08-00991	REV D
SCALE NTS	DATE 05/18/10	SHEET 20 OF 23



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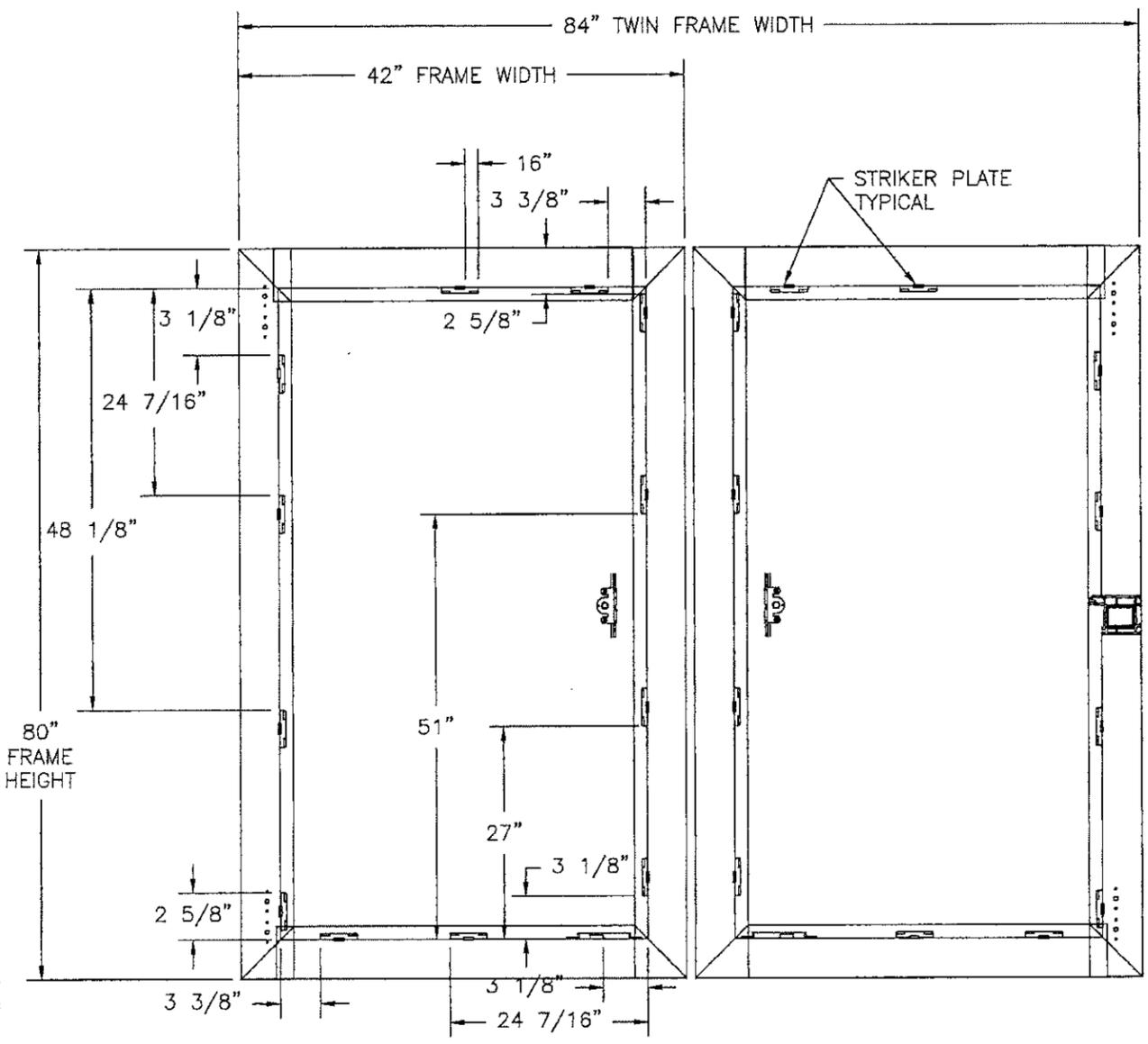


FRAME AND SASH HARDWARE LAYOUT
TWIN UNIT ROTO HAREDWARE INTERIOR VIEW

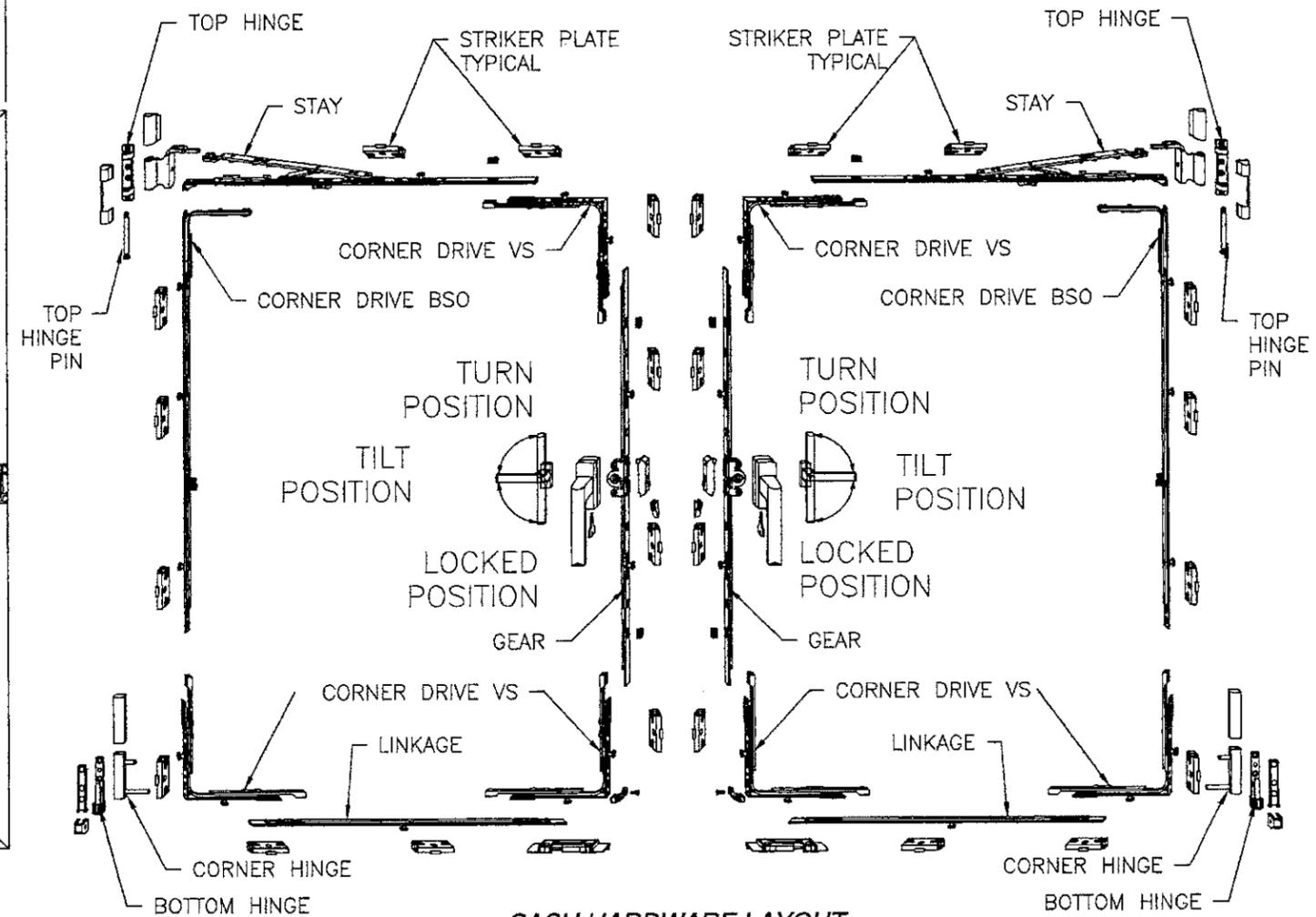
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SCALE NTS	DATE 05/18/10	SHEET 21 OF 23

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FRAME HARDWARE LAYOUT
TWIN UNIT SIEGENIA HARDWARE INTERIOR VIEW

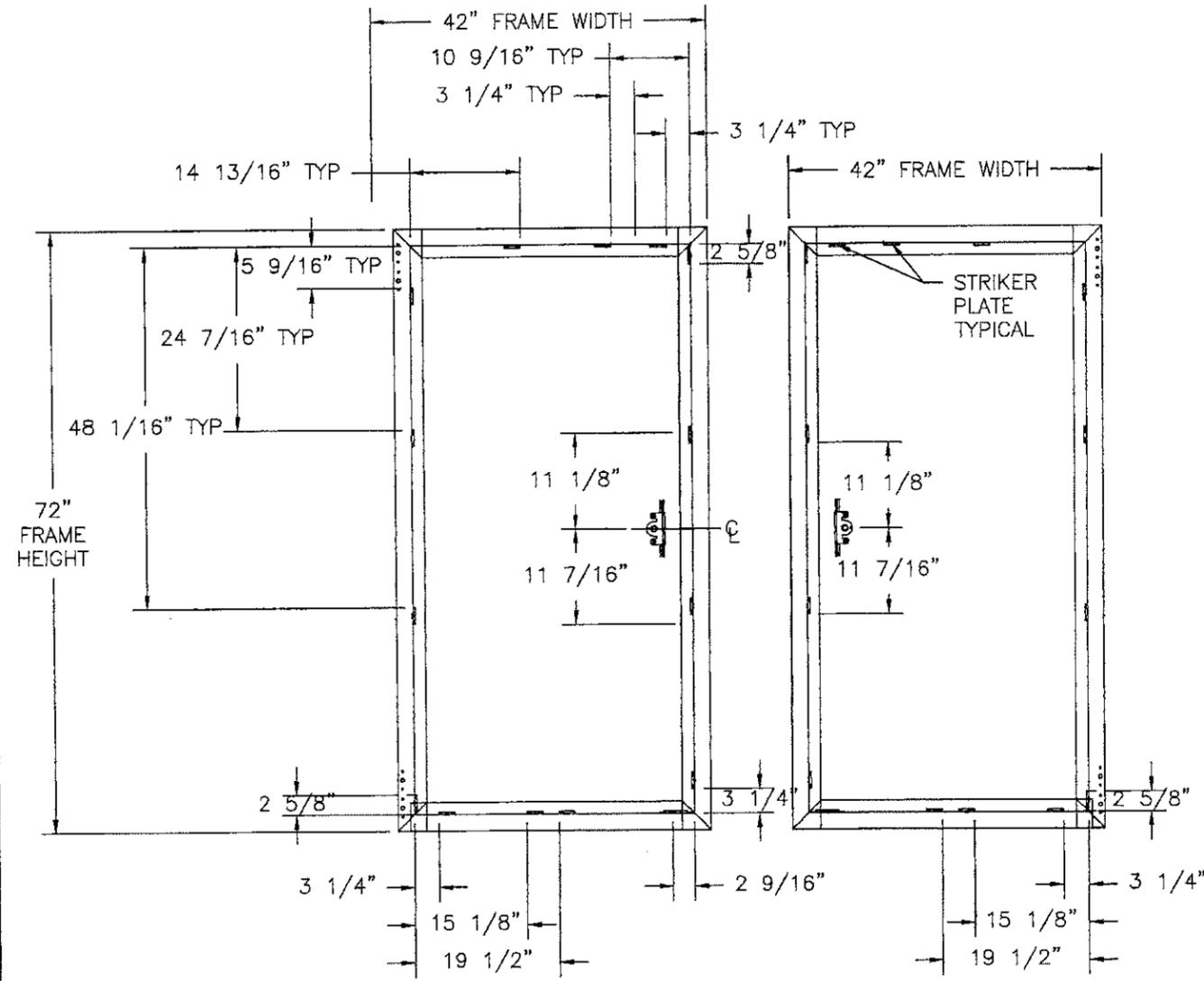


SASH HARDWARE LAYOUT
TWIN UNIT SIEGENIA HARDWARE INTERIOR VIEW

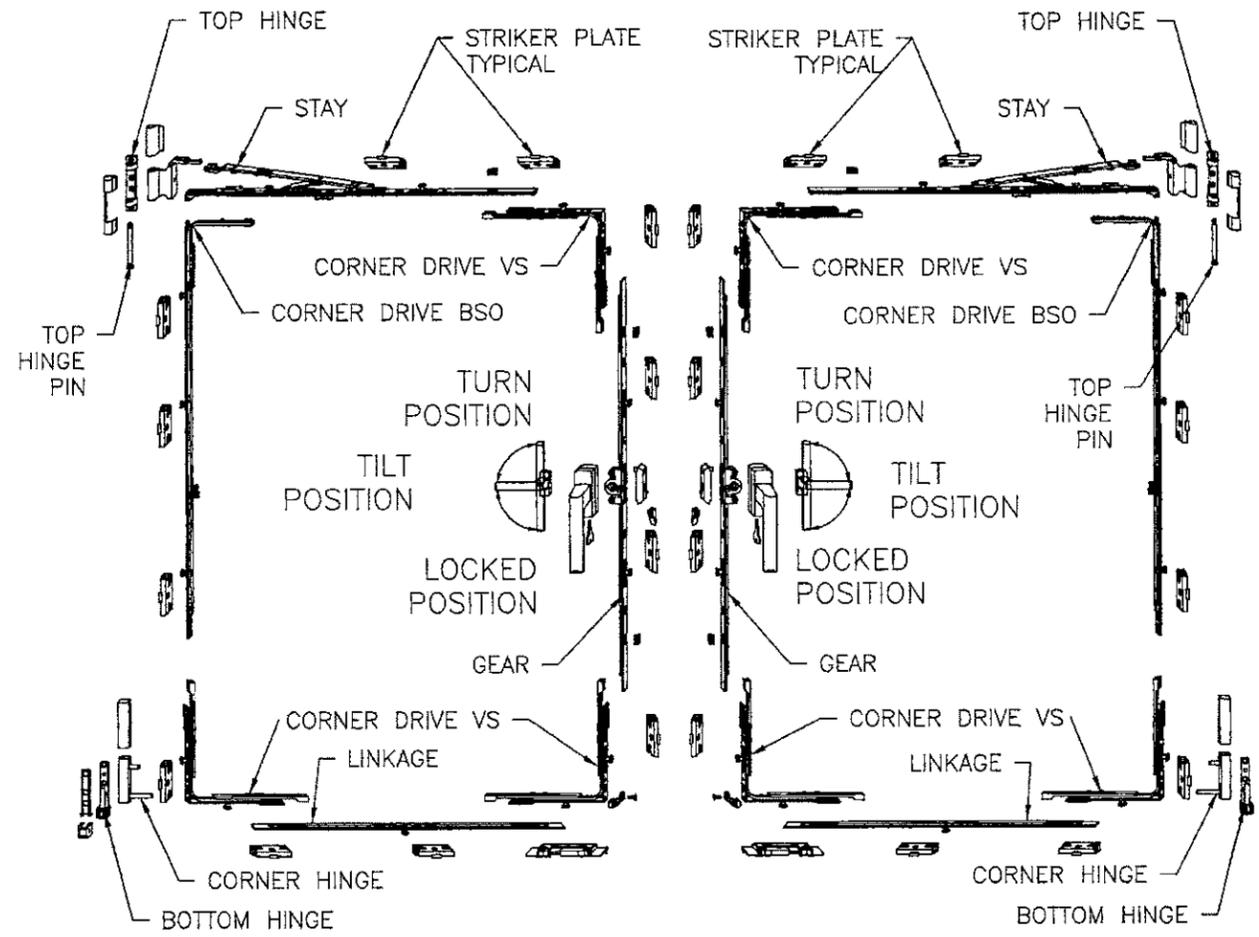
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FRAME HARDWARE LAYOUT
TWIN UNIT SIEGENIA HARDWARE INTERIOR VIEW



SASH HARDWARE LAYOUT
TWIN UNIT SIEGENIA HARDWARE INTERIOR VIEW

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