

SUNSET WINDOWS AND DOORS

SERIES VINYL IMPACT V-750

CASEMENT WINDOW

LARGE MISSILE IMPACT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO TAS 202, TAS 201 & TAS-203 TEST PROTOCOLS DOCUMENTED IN TEST REPORT NO. NCTL-210-4227-02.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5. ALL SETTING BLOCKS AND GASKET MATERIALS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
6. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL NOT BE REQ'D.
7. MATERIALS:

7.1. FRAME: RIGID PVC / VINYL- Firat Plastik

7.1.1. Property Test Performance (Test Report No. N2982.01-106-18, Dated 1/8/23 by Intertek):

7.1.2. Rate of Burning ASTM D635; Class CC1G155

7.1.3. Self-Ignition Temperature ASTM D1929; 860 deg. F > 650 deg. F

7.1.4. Average Smoke Density Rating ASTM D2843; 71.6 < 75

7.1.5. ASTM G155, Cycle 1, Accelerated Weathering for 4500 Hours

7.1.6. Tensile Strength Difference: *Exposed & Unexposed ASTM D638 +0.6 % < 10%

*Exposed per Section 2615 of The Florida Building Code.
8. GLAZING:

8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1 AND 2016.

8.2. SECTION VIEWS SHOW ONLY SINGLE LAMINATED LITE. ALL GLAZING DETAILS LISTED ON SHEET 4 APPROVED. SEE DESIGN PRESSURE RATING TABLES ON SHEET 2 AND 3 FOR ASSOCIATED PERFORMANCE RATING.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.

8.4. KURARAY AMERICA SG AND TROSIFOL PVB INTERLAYERS PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
9. PANEL OPERABILITY DESIGNATIONS:

9.1. WINDOW IS AN OPERABLE PANEL (X).

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2-3	ELEVATION AND ANCHOR LAYOUT
4	VERTICAL, HORIZONTAL SECTIONS & GLAZING DETAIL
5-6	ANCHOR DETAILS
7	BILL OF MATERIALS AND COMPONENTS

INSTALLATION NOTES:

1. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO MASONRY/CONCRETE USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/2" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. ANCHORING INTO WOOD SHALL BE AS FOLLOWS:

3.1. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS PER (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE.
4. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

4.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55 (HVHZ).

4.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

4.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

SUNSET WINDOWS AND DOORS
910 WHAREHOUSE ROAD
ORLANDO, FL 32803

SERIES V-750 VINYL
IMPACT CASEMENT WINDOW

GENERAL NOTES

DRAWN:
JRM

DWG NO.
NL-0148

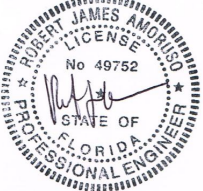
REV
0

SCALE
SCALE

DATE
01/25/22

SHEET
1_OF_7

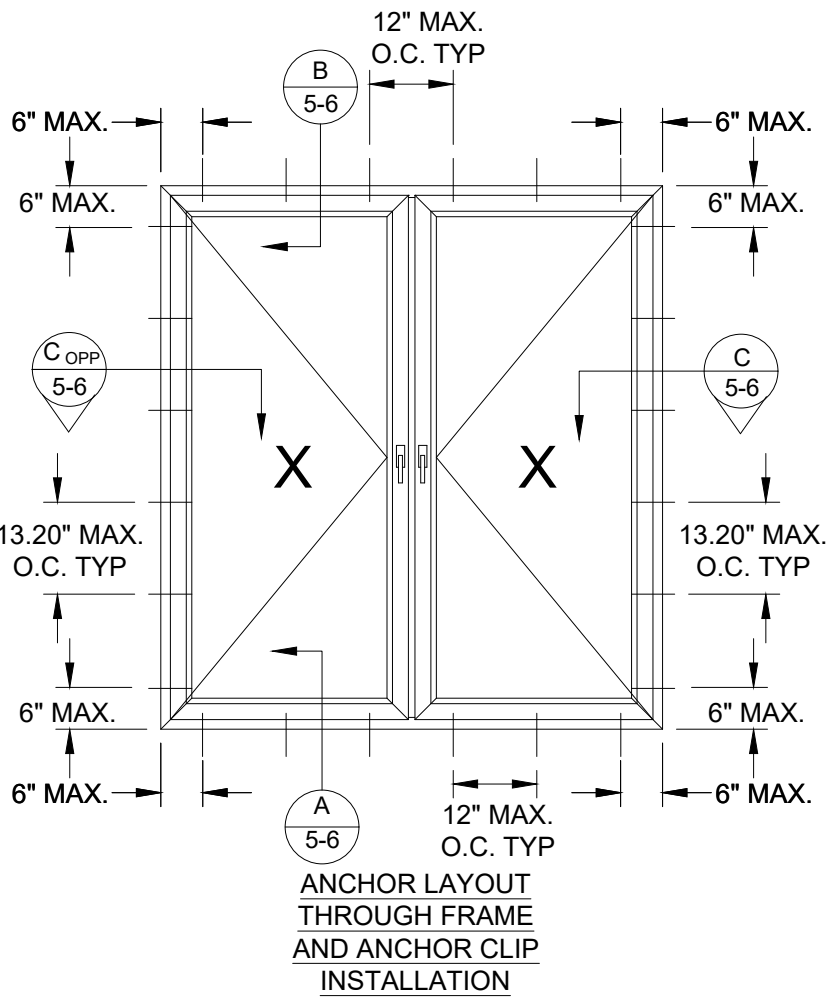
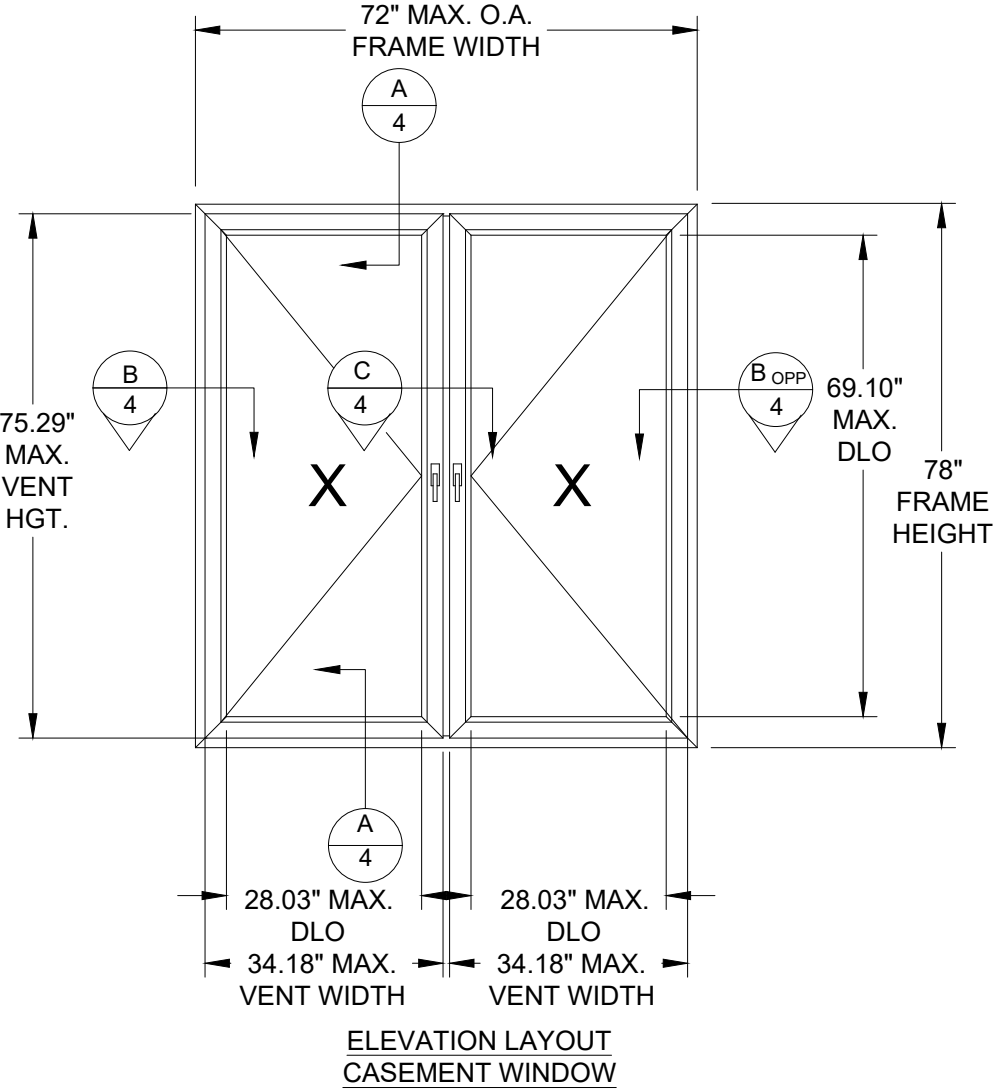
ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:38:39 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ
72" X 78"	+/- 65.0 PSF	XX	LARGE MISSILE
SEE GLAZING DETAIL 1 & 2 ON SHT. 4			

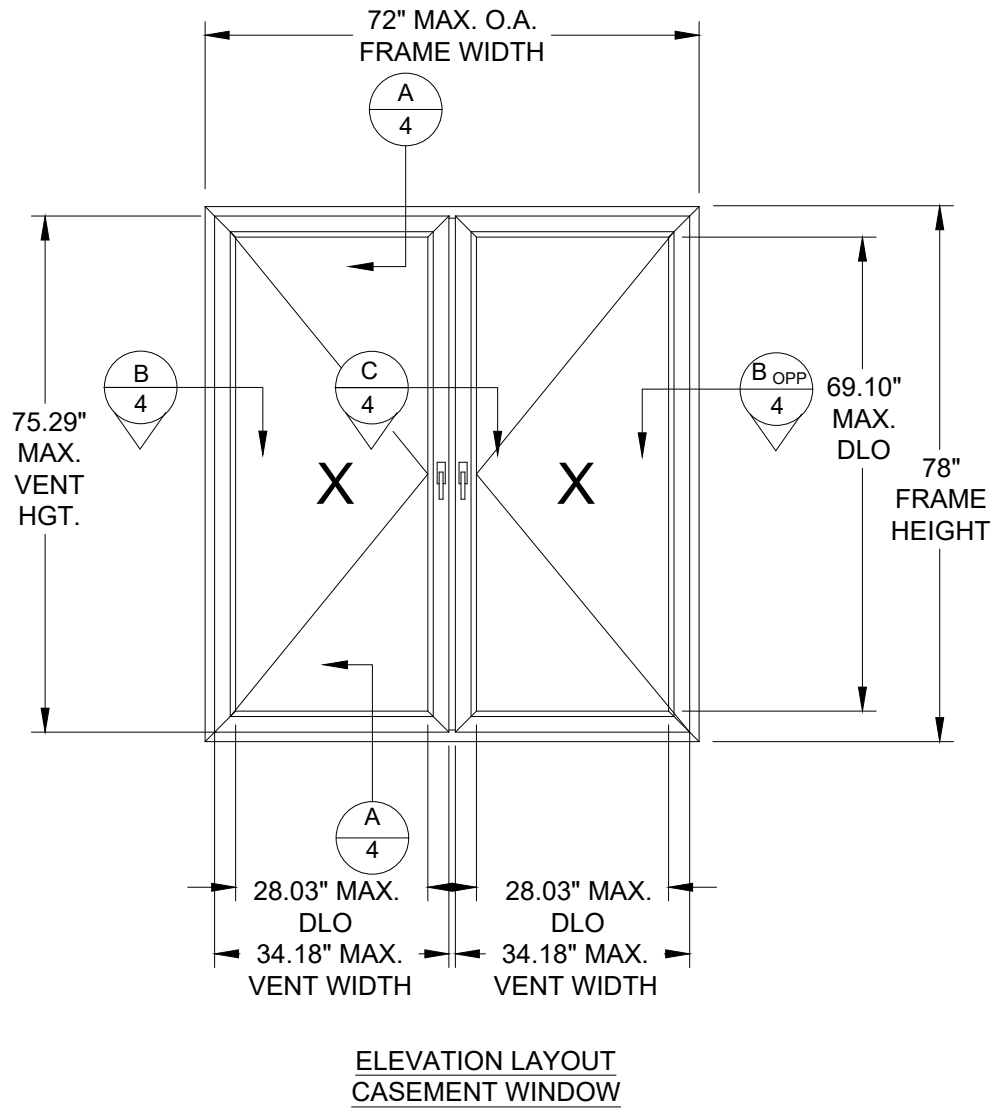
MAXIMUM SIZES (IN)	
FRAME	72 X 78
VENT	34.18 X 75.29
D.L.O	28.03 X 69.10

SUNSET WINDOWS AND DOORS 910 WHAREHOUSE ROAD ORLANDO, FL 32803		
SERIES V-750 VINYL IMPACT CASEMENT WINDOW ELEVATION AND ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0148	REV 0
SCALE SCALE	DATE 01-25-22	SHEET 2_OF_7

ROBERT J. AMORUSO
FL. P.E. NO. 49752

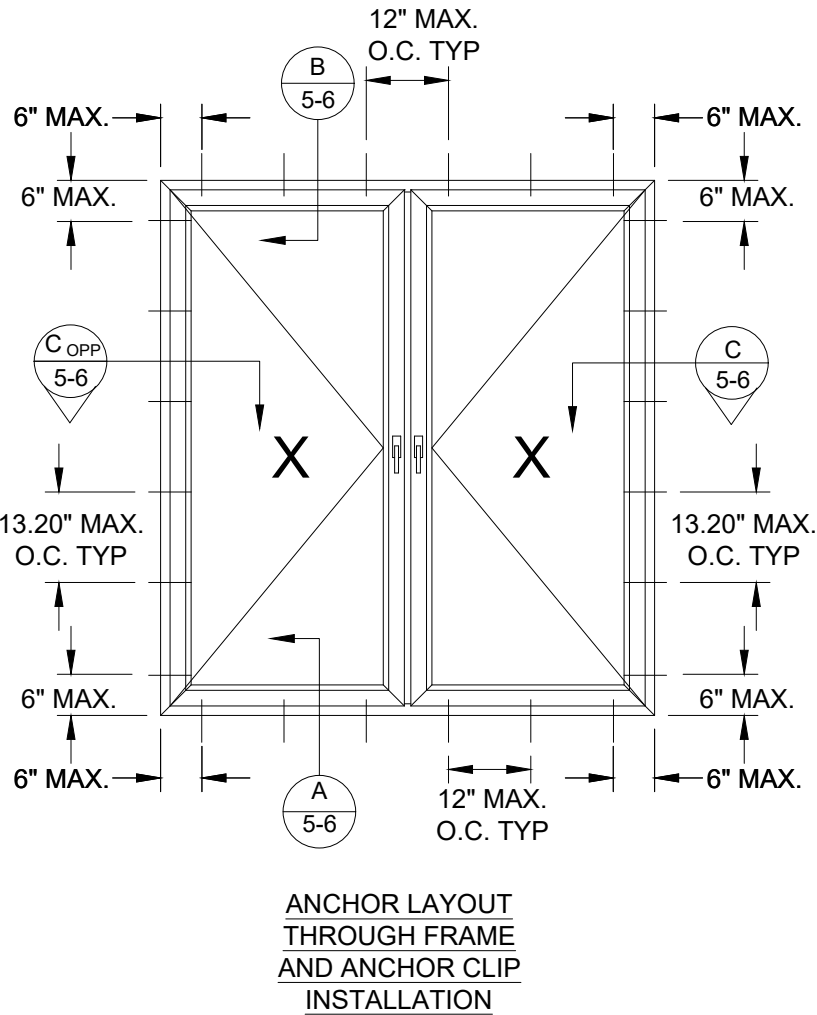
Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:38:57 -05'00'
734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ
72" X 78"	+/- 50.0 PSF	OX	LARGE MISSILE
SEE GLAZING DETAIL 3 & 4 ON SHT. 4			

MAXIMUM SIZES (IN)	
FRAME	72 X 78
VENT	34.18 X 75.29
D.L.O	28.03 X 69.10

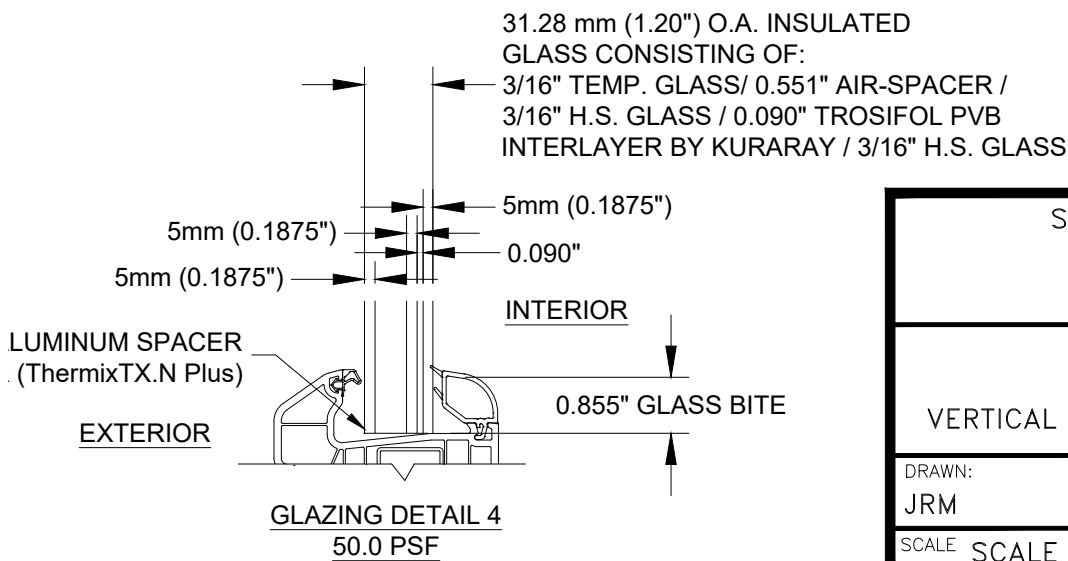
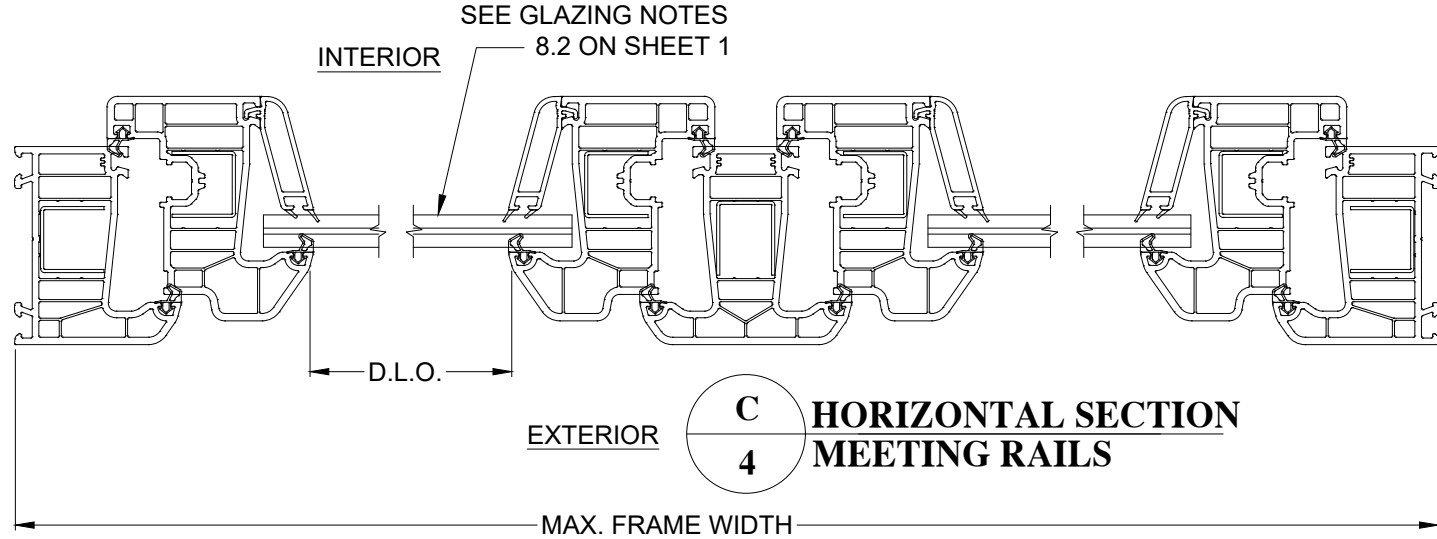
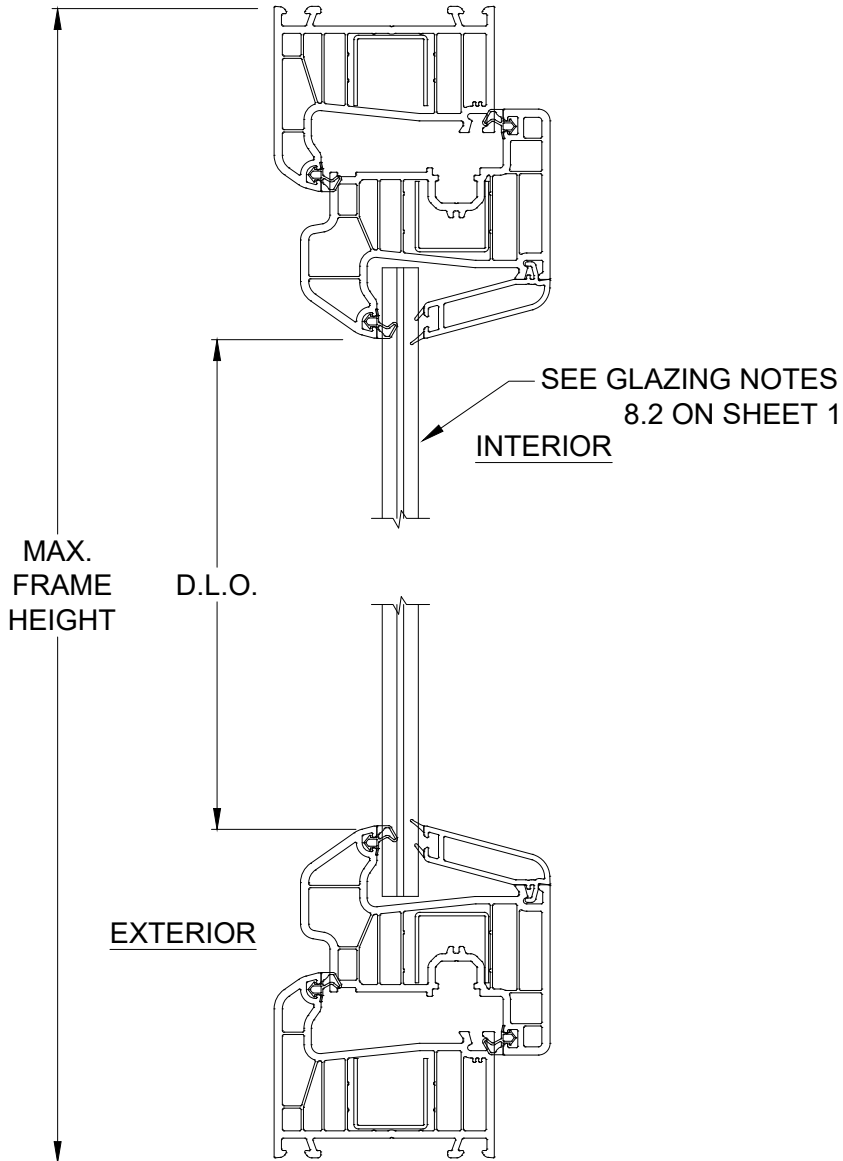
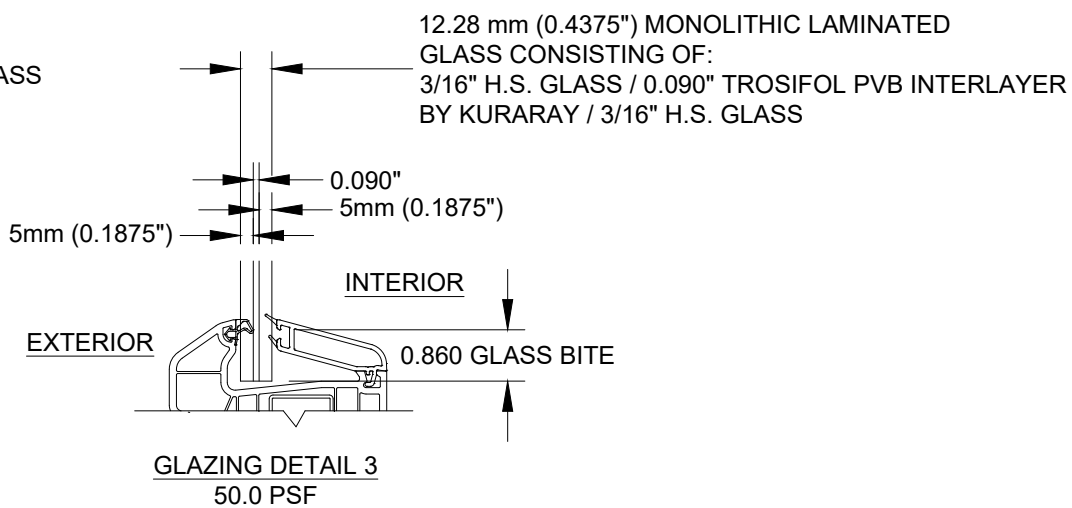
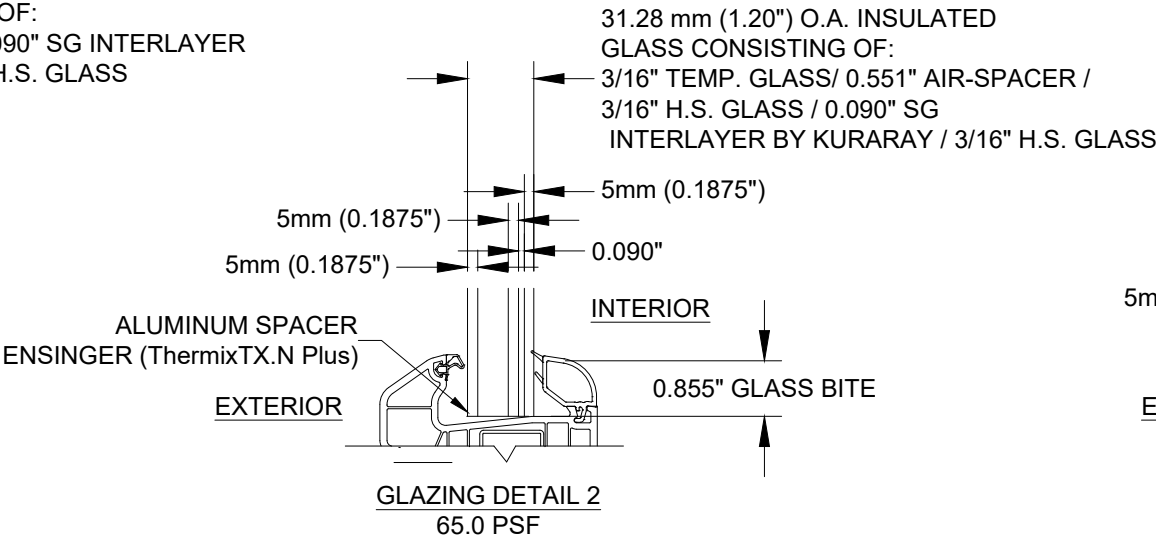
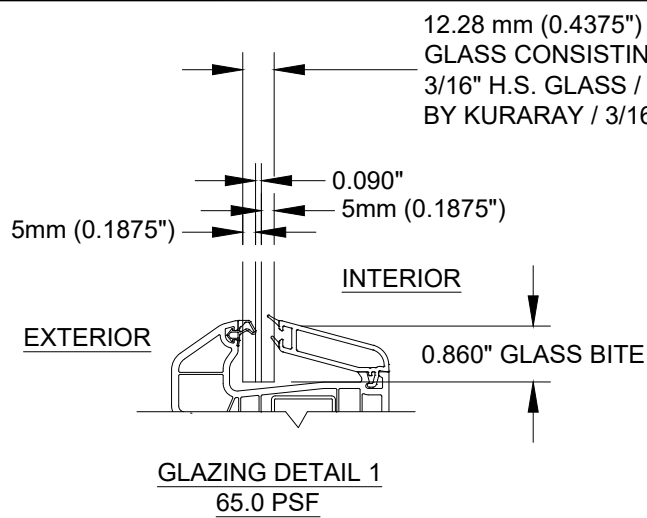


SUNSET WINDOWS AND DOORS 910 WHAREHOUSE ROAD ORLANDO, FL 32803			
SERIES V-750 VINYL IMPACT CASEMENT WINDOW ELEVATION AND ANCHOR LAYOUT			
DRAWN: JRM	DWG NO. NL-0148	REV 0	
SCALE	SCALE	DATE 01-25-22	SHEET 3_OF_7

ROBERT J. AMORUSO
FL. P.E. NO. 49752

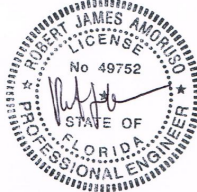
Digitally signed by
Robert J Amoruso®
Date: 2023.01.18
11:39:10 -05'00'
734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SUNSET WINDOWS AND DOORS 910 WHAREHOUSE ROAD ORLANDO, FL 32803			
SERIES V-750 VINYL IMPACT CASEMENT WINDOW VERTICAL AND HORIZONTAL SECTIONS & GLZG.			
DRAWN: JRM	DWG NO. NL-0148	REV 0	
SCALE SCALE	DATE 01-25-22	SHEET 4_OF_7	

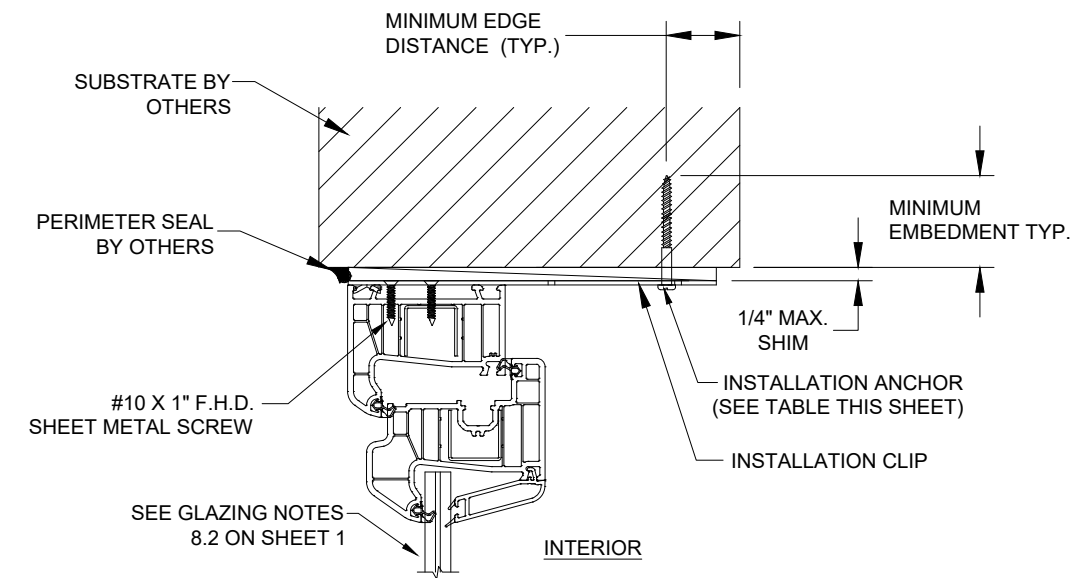
ROBERT J. AMORUSO
FL. P.E. NO. 49752



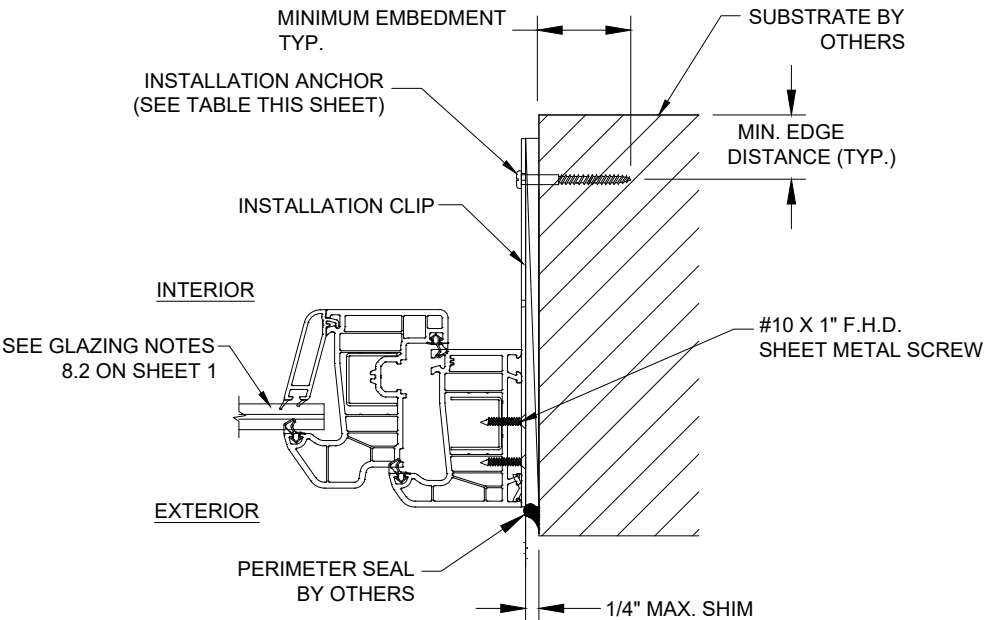
Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:39:24 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

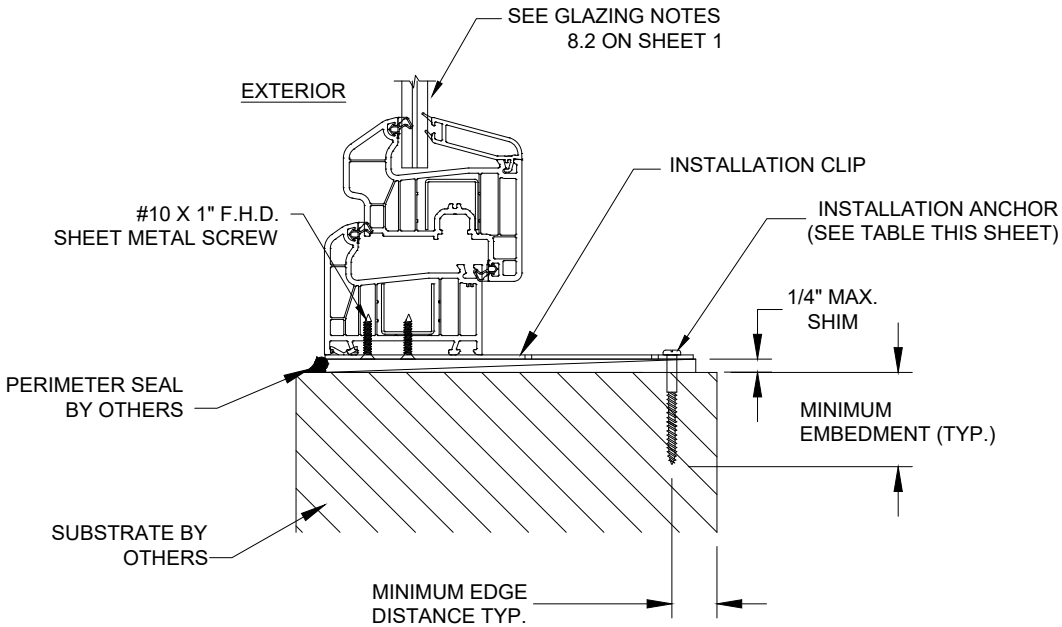
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
5 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME HEAD



C
5 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME JAMB

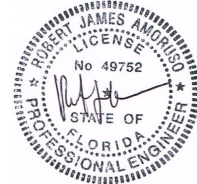


A
5 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME SILL

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH STRAP	WOOD	MIN. 0.55 S.G. (HVHZ)	#14 WOOD SCREW	1-1/2	1"
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

SUNSET WINDOWS AND DOORS 910 WHAREHOUSE ROAD ORLANDO, FL 32803		
SERIES V-750 VINYL IMPACT CASEMENT WINDOW ANCHOR DETAILS - INSTALLATION CLIP		
DRAWN: JRM	DWG NO. NL-0148	REV 0
SCALE SCALE	DATE 01-25-22	SHEET 5_OF_7

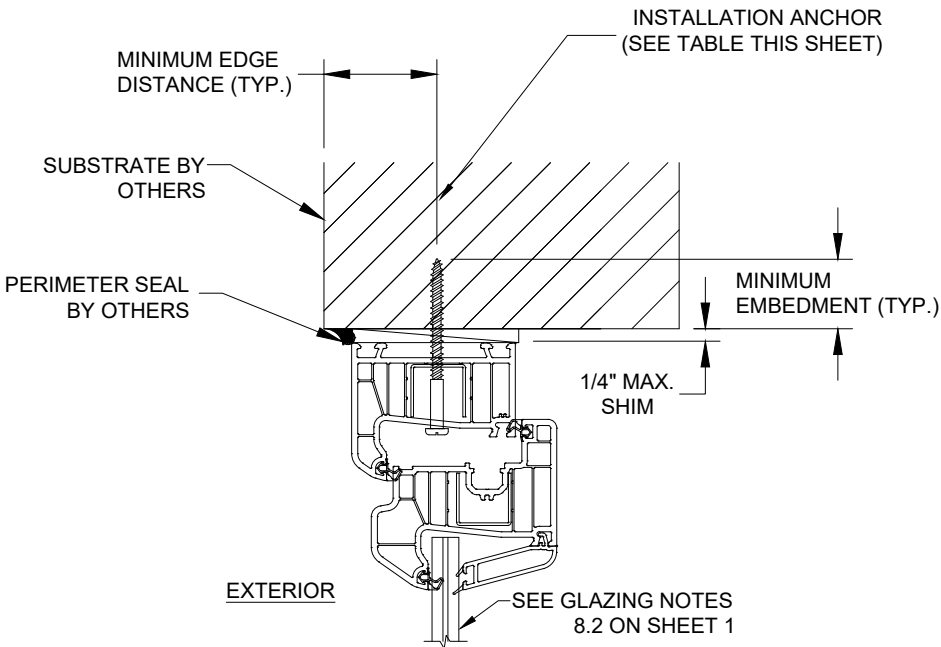
ROBERT J. AMORUSO
FL. P.E. NO. 49752



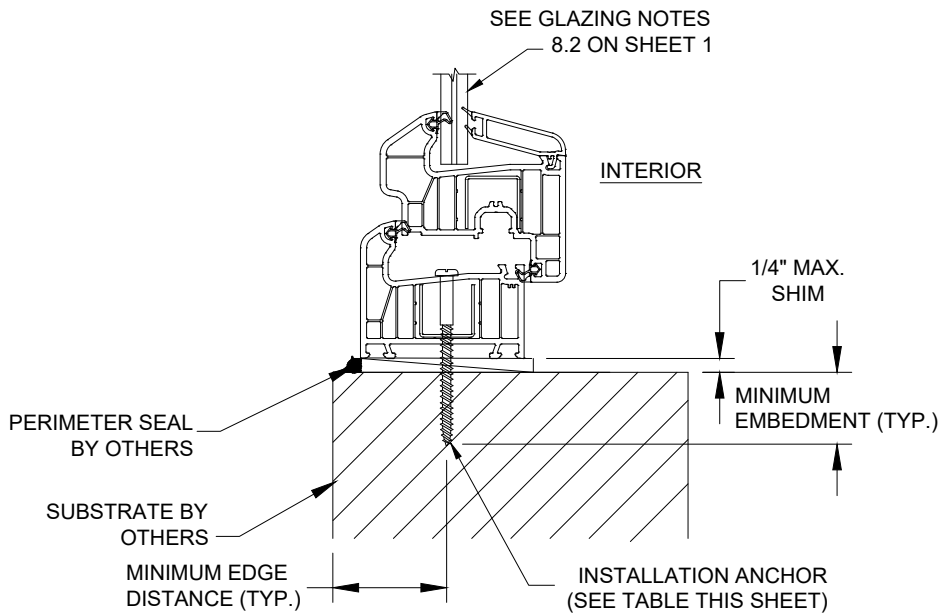
Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:39:42 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

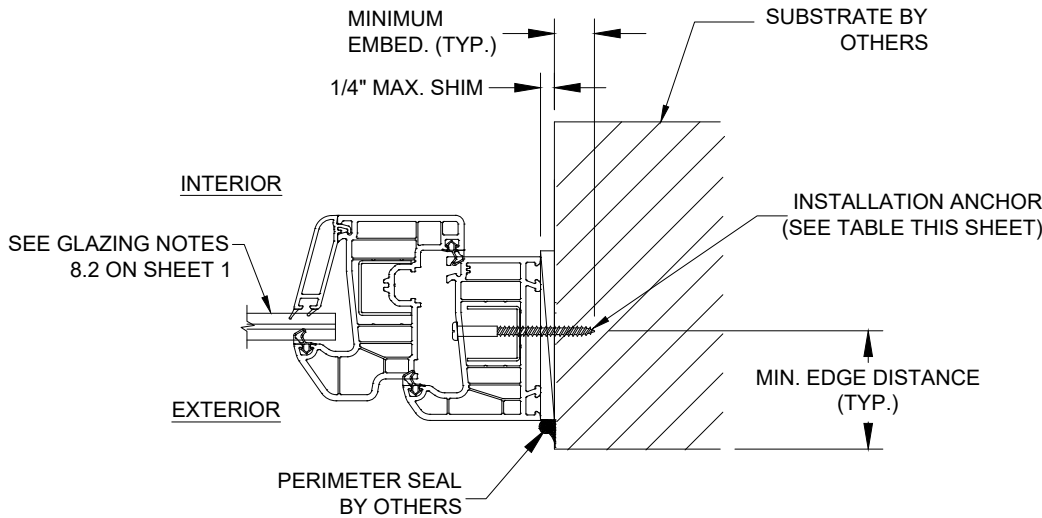
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD**



A
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME SILL**



C
6 **ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB**

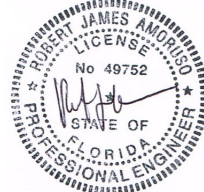
INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.55 S.G. (HVHZ)	#14 WOOD SCREW	1-1/2	1"
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

SUNSET WINDOWS AND DOORS
910 WHAREHOUSE ROAD
ORLANDO, FL 32803

SERIES V-750 VINYL
IMPACT CASEMENT WINDOW
ANCHOR DETAILS-THROUGH FRAME

DRAWN: JRM	DWG NO. NL-0148	REV 0
SCALE SCALE	DATE 01-25-22	SHEET 6_OF_7

ROBERT J. AMORUSO
FL. P.E. NO. 49752

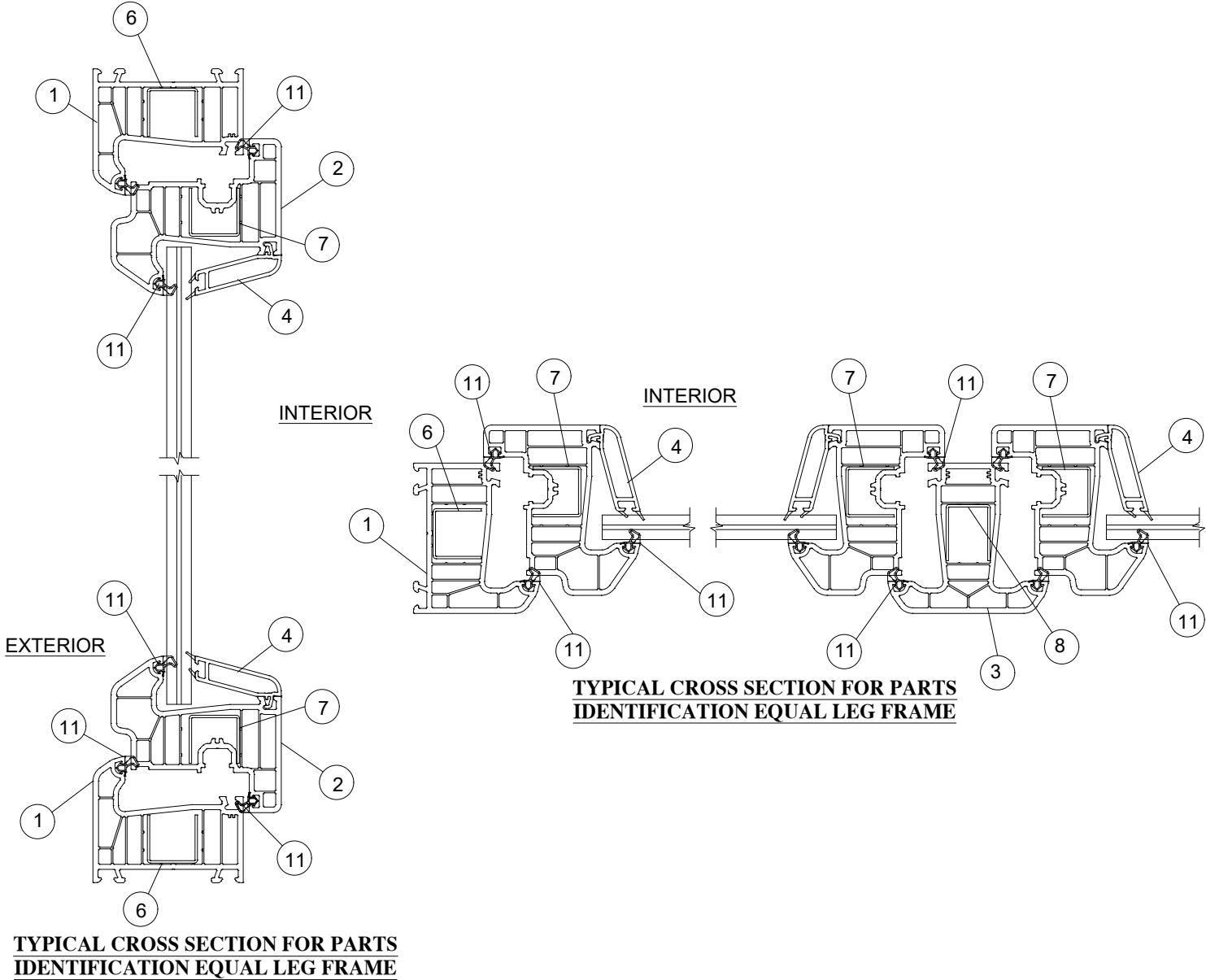
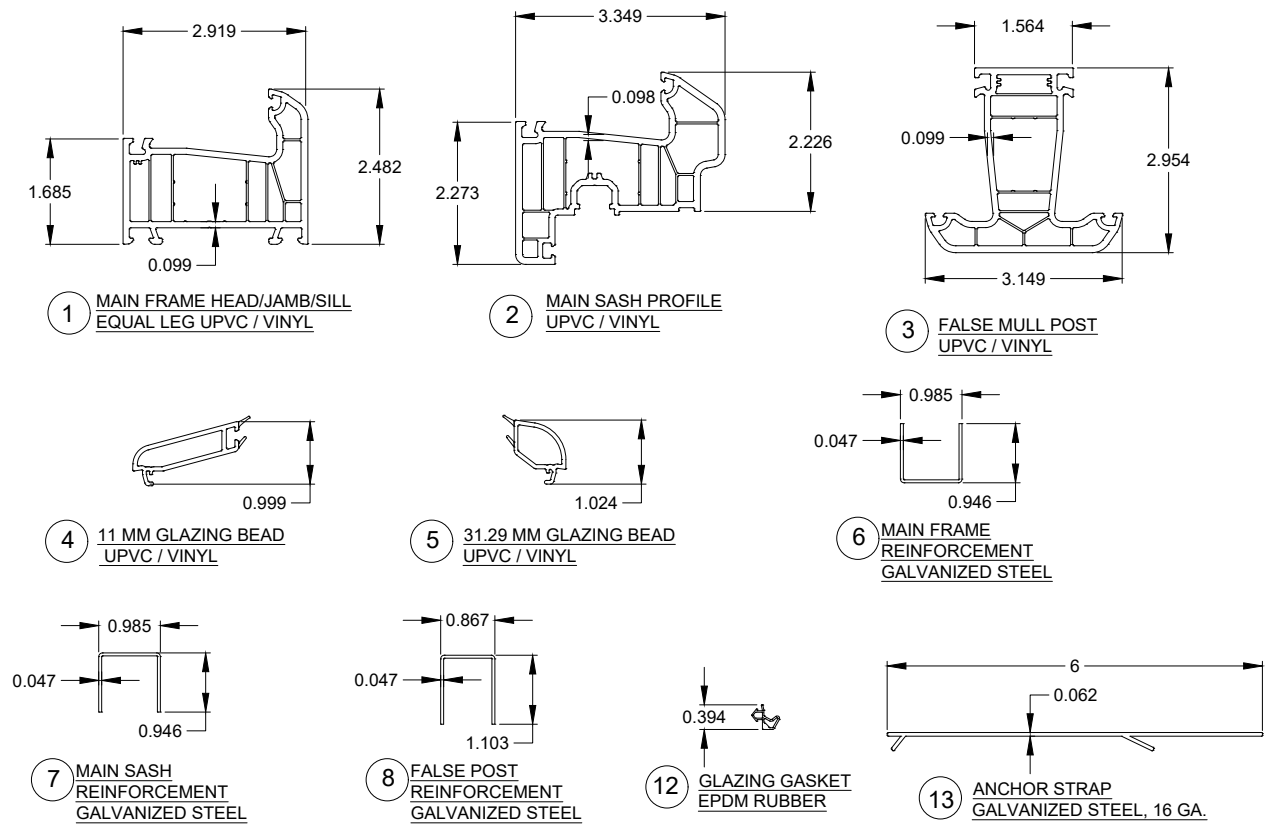


Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:39:55 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	-----	MAIN FRAME HEAD, JAMB & SILL UPVC	FIRAT PLASTIK
2	-----	SASH TOP, BOTT., RAILS AND CTR. STILES, UPVC	FIRAT PLASTIK
3	-----	FALSE MULL POST, UPVC	FIRAT PLASTIK
4	-----	12 MM GLAZING BEAD, UPVC	FIRAT PLASTIK
5	-----	31 MM GLAZING BEAD, UPVC	FIRAT PLASTIK
6	-----	FRAME GALV. STL. REINFORCEMENT	PURCHASE
7	-----	SASH PROFILE GALV. STL. REINFORCEMENT	PURCHASE
8	-----	FALSE POST GALV. STL. REINFORCEMENT	PURCHASE
9	-----	#14 PH WOOD SCREW	PURCHASE
10	-----	1/4" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
11	-----	GLAZING GASKET EPDM RUBBER	PURCHASE
12	-----	ANCHOR STRAP, 16 GA. GALVANIZED STEEL	PURCHASE



SUNSET WINDOWS AND DOORS 910 WHAREHOUSE ROAD ORLANDO, FL 32803		
SERIES V-750 VINYL IMPACT CASEMENT WINDOW BILL OF MATERIAL & COMPONENTS		
DRAWN: JRM	DWG NO. NL-0148	REV 0
SCALE SCALE	DATE 01-25-22	SHEET 7_OF_7

ROBERT J. AMORUSO
FL. P.E. NO. 49752

Digitally signed by
Robert J Amoruso
Date: 2023.01.18
11:40:07 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com