

UNILUX GmbH

SERIES HADKZ DOUBLE CASEMENT

WOOD CLAD WINDOW NON-IMPACT

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-11 DOCUMENTED IN TEST REPORT NO'S. NCTL-210-4155-05.
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 BE AS FOLLOWS:
- 6.1. THE NON-IMPACT GLAZED PRODUCT REQUIRES THE USE OF AN IMPACT PROTECTION DEVICE IF USED IN A WINDBORNE DEBRIS REGION.
7. MATERIALS:

7.1 FRAME: WOOD WITH SPECIFIC GRAVITY = 0.50

7.2 CLADDING: ALUMINUM 6063-T5

7.3 MISC. COMPONENTS: ALUMINUM 6063-T5
8. GLAZING:
- 8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
- 8.2. SEE GLAZING DETAILS ON SHEET 9 OF 9.
- 8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. PANEL OPERABILITY DESIGNATIONS:
- 9.1. (X) WINDOW IS AN OPERABLE (MOVING) PANEL..

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES
2-3	ELEVATION AND ANCHOR LAYOUT
4-7	INSTALLATION DETAILS
8	COMPONENTS
9	BILL OF MATERIALS & GLAZING DETAIL

ANCHOR 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 INSTALLATION CLIP INTO MASONRY/CONCRETE USE 1/4" ITW ADVANCED THREADFORM 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 INSTALLATION 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 0.42 (NON-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).

UNILUX GmbH

Nikolaus–Meeth–Strab1

Salmtal–Germany

SERIES HADKZ DBL CASEMENT

WOOD CLAD WINDOW NON–IMPACT

GENERAL NOTES

DRAWN: JRM

DWG NO. NL–0125

REV –

SCALE NTS

DATE 11/11/2020

SHEET 1 OF 9

ROBERT J. AMORUSO

FL. P.E. NO. 49752



Digitally signed by Robert J Amoruso

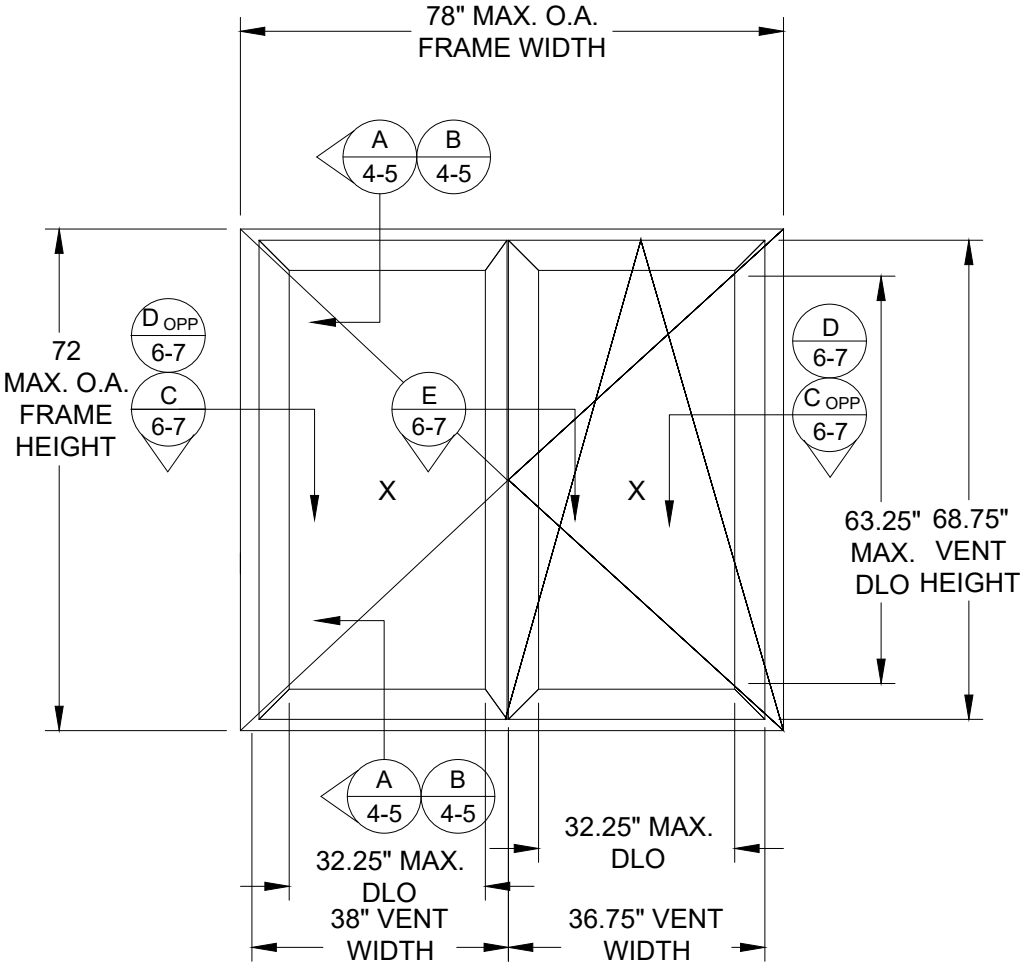
Date: 2020.12.30 14:28:26 -05'00'

734 S CENTER ST.

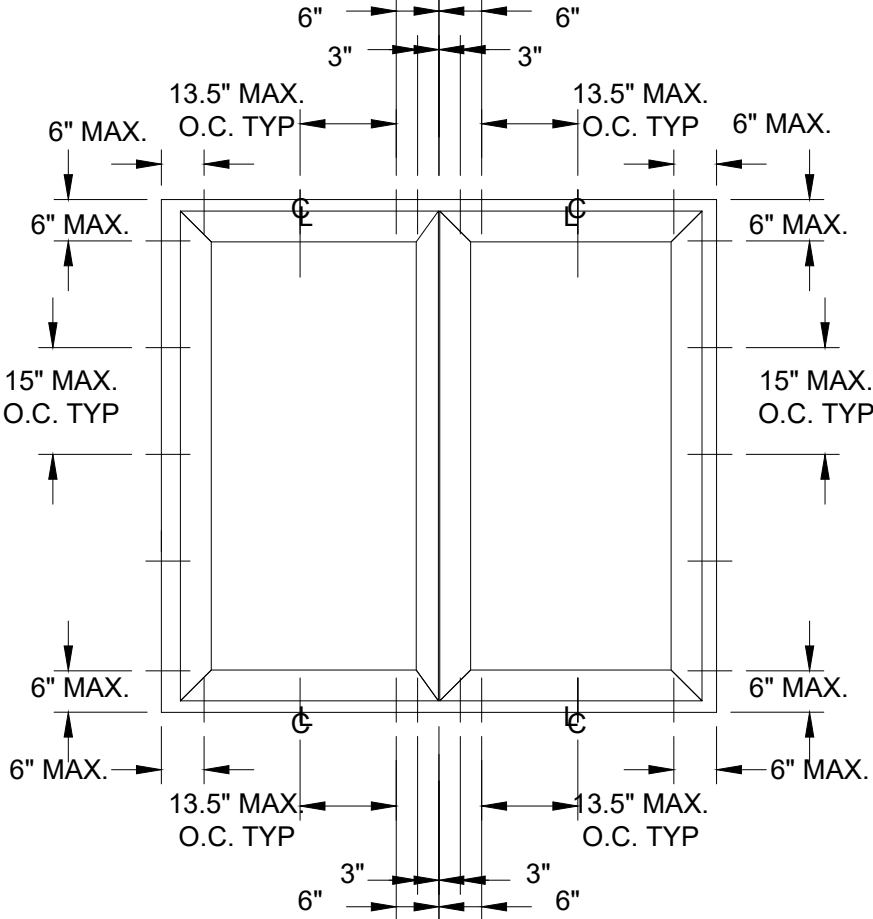
ORMOND BEACH, FL 32174

robert.amoruso@comcast.net

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ANCHOR ELEVATION
INTERIOR VIEW
DOUBLE HADKX, XX



ANCHOR NOTES:
FRAME AND CLIP INSTALLATION
MAY BE USED INTERCHANGEABLY
ON SAME FRAME

ANCHOR LAYOUT
FRAME AND CLIP
INSTALLATION

ANCHORAGE INSTALLATION REQUIREMENTS TO MEET
DESIGN PRESSURE OF +/-80 PSF

DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING
78" X 72"	+/- 80.0	XX	NONE
SEE GLAZING DETAIL ON SHT. 9			

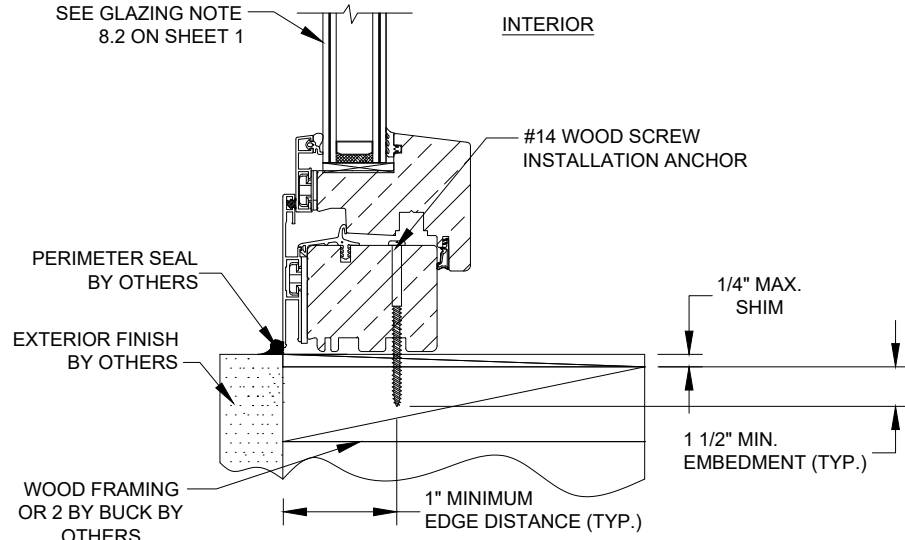
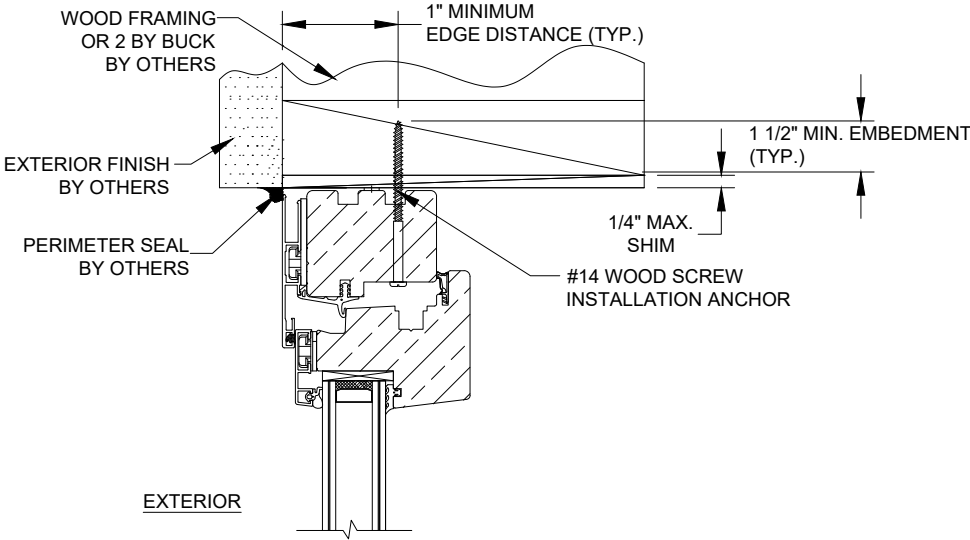
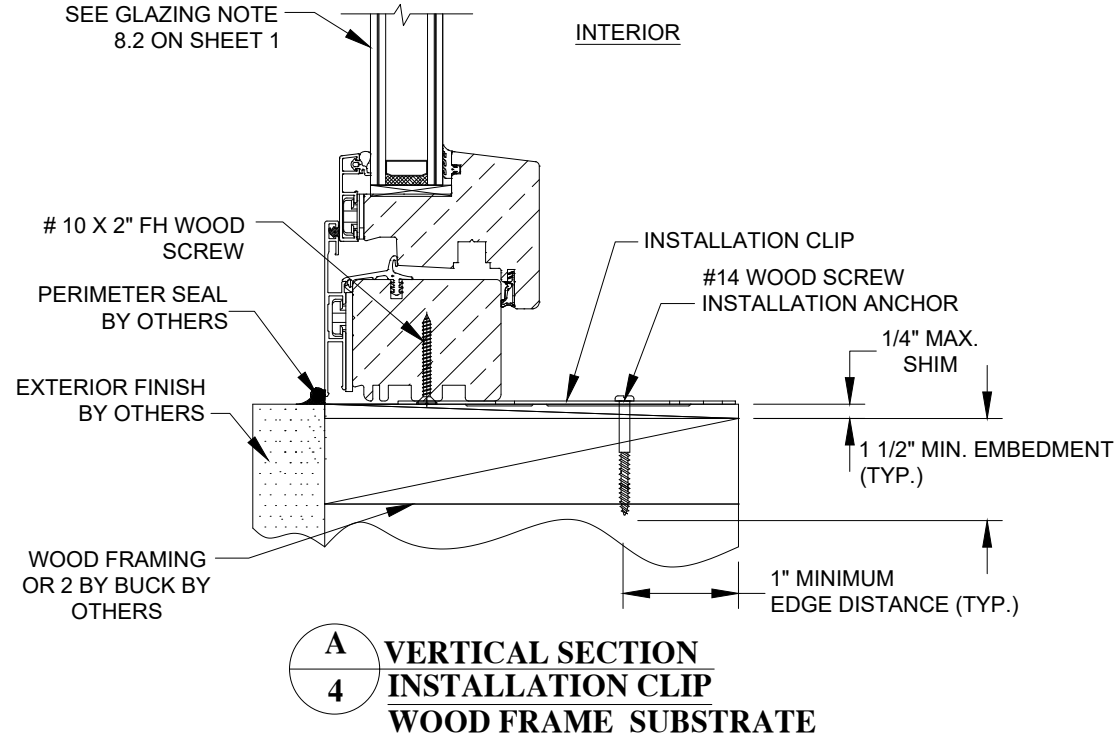
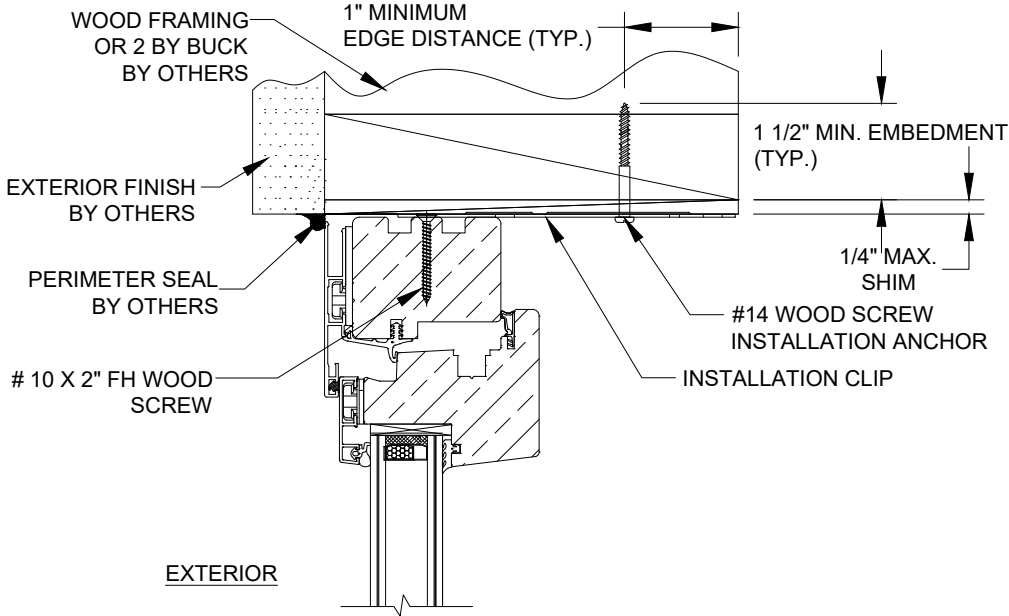
UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT ELEVATION & ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 2 OF 9

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

Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:28:37 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@comcast.net

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
4 VERTICAL SECTION
THROUGH FRAME
WOOD FRAME SUBSTRATE

UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT VERTICAL INSTALLATION DETAILS-WOOD FRAME		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 4 OF 9

ROBERT J. AMORUSO

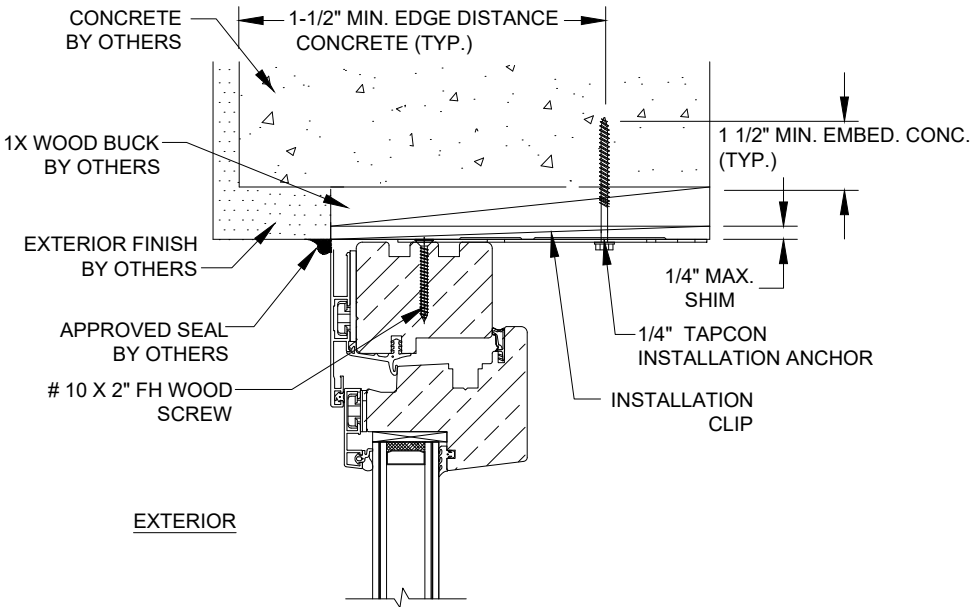
FL. P.E. NO. 49752

Digitally signed by Robert J Amoruso

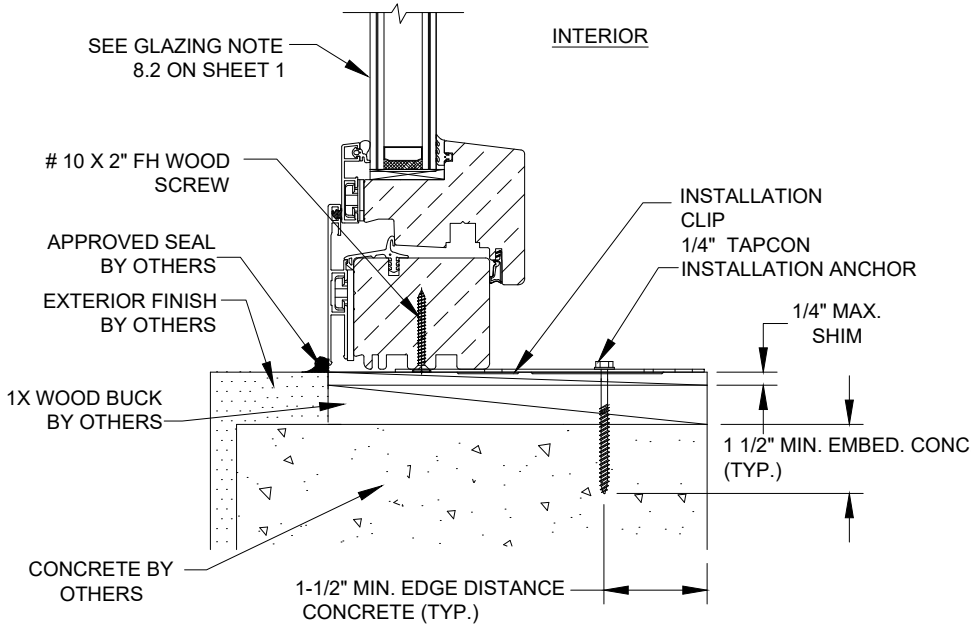
Date: 2020.12.30 14:28:58 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@comcast.net

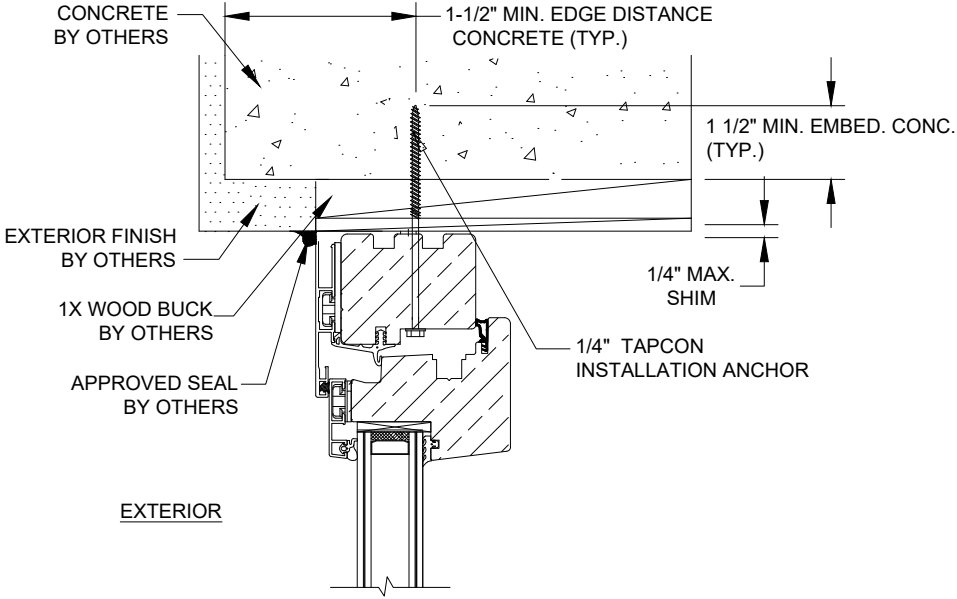
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



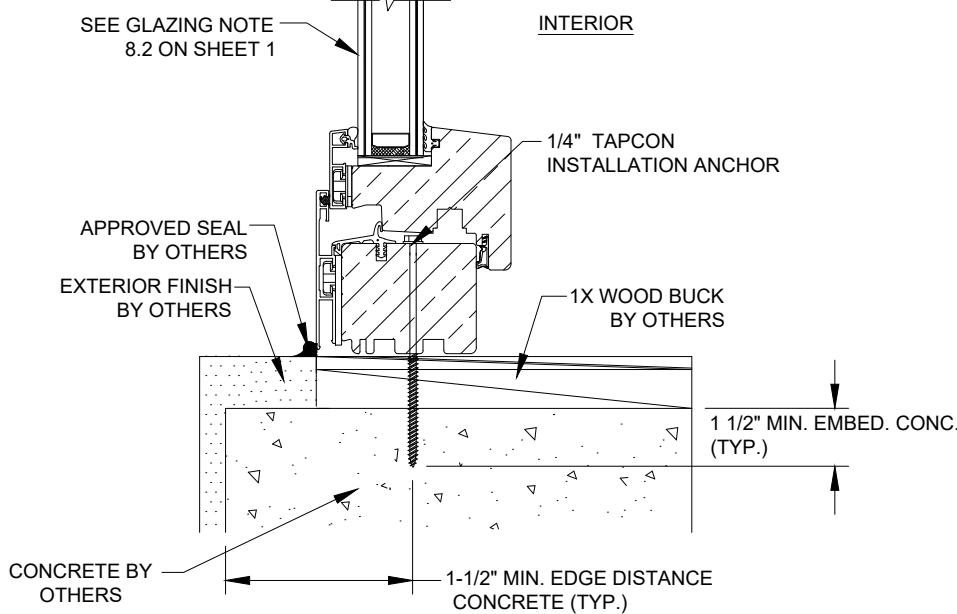
EXTERIOR



A
5 VERTICAL SECTION
INSTALLATION CLIP
CONCRETE SUBSTRATE



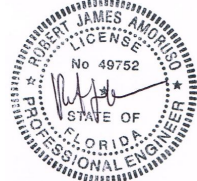
EXTERIOR



B
5 VERTICAL SECTION
THROUGH FRAME
CONCRETE SUBSTRATE

UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT VERTICAL INSTALLATION-MASONRY/CONCRETE		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 5 OF 9

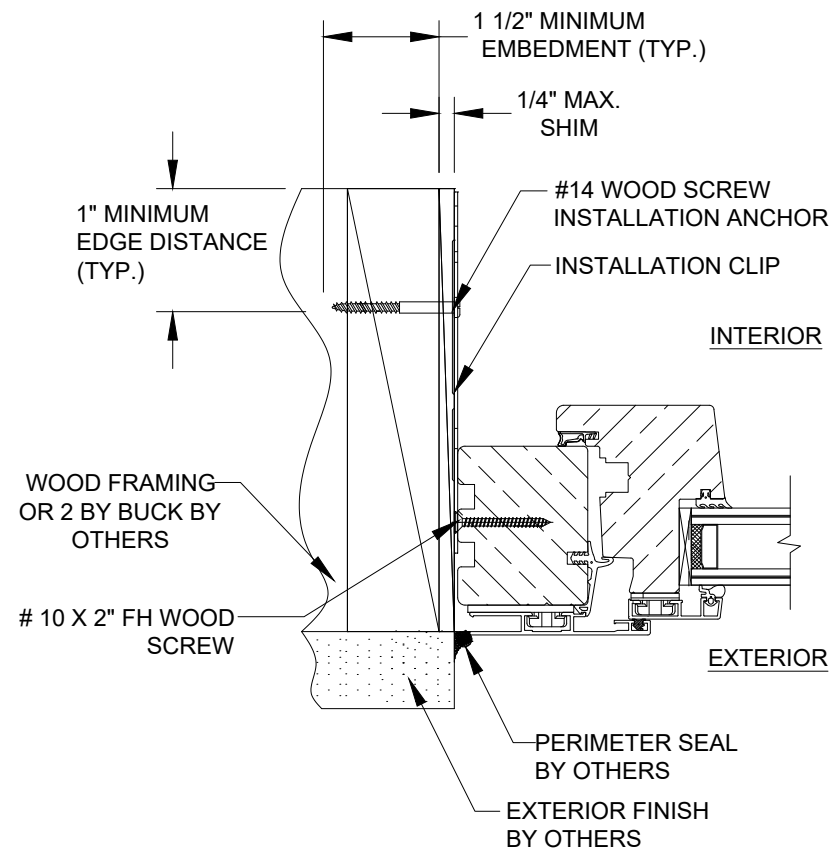
ROBERT J. AMORUSO
FL. P.E. NO. 49752



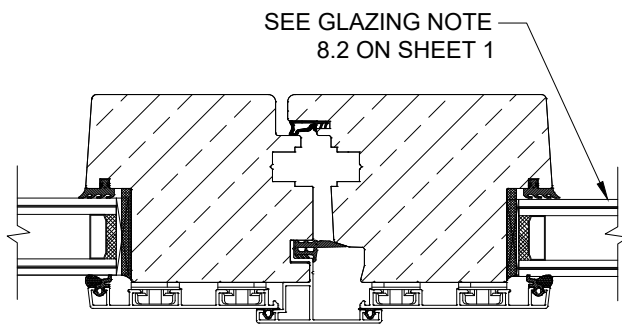
Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:29:08 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@
comcast.net

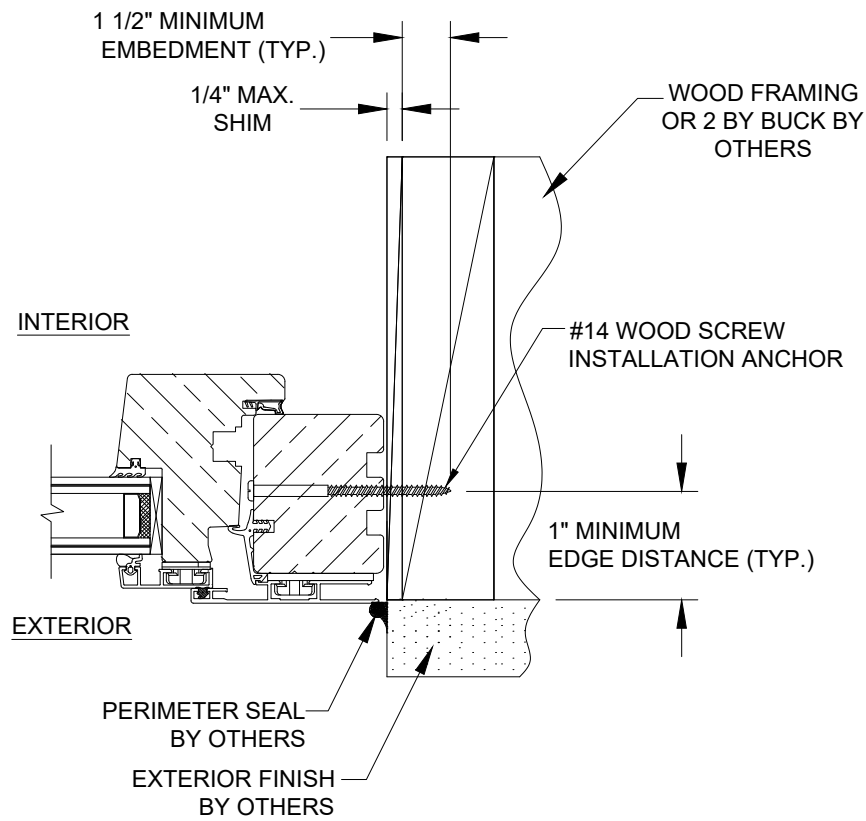
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



C
6 **HORIZONTAL SECTION**
INSTALLATION CLIP
WOOD FRAME SUBSTRATE



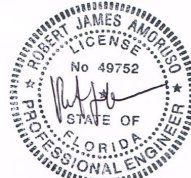
E
6 **ASTRAGAL SECTION**



D
6 **HORIZONTAL SECTION**
THROUGH FRAME INSTALLATION
WOOD FRAME SUBSTRATE

UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT VERTICAL INSTALLATION-MASONRY/CONCRETE		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 6 OF 9

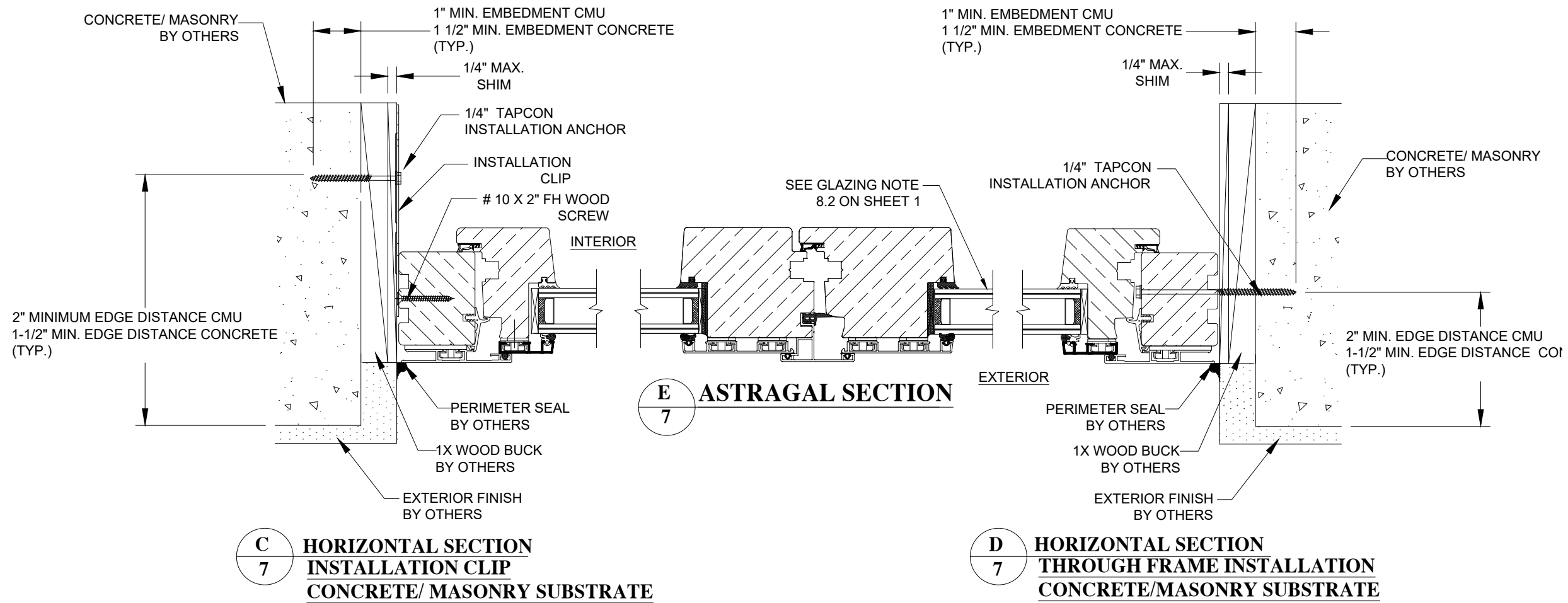
ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:29:19 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@comcast.net

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



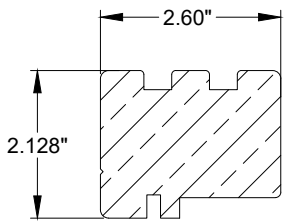
UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT VERTICAL INSTALLATION-MASONRY/CONCRETE		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 7 OF 9

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

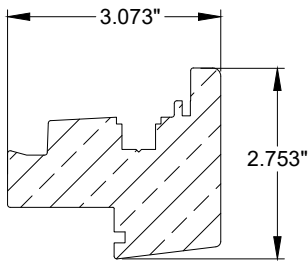
Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:29:30 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@comcast.net

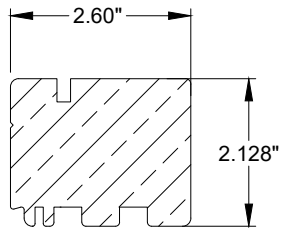
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



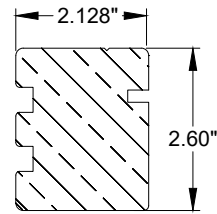
1 WOOD PROFILE, TOP
F41-0007-1 WOOD



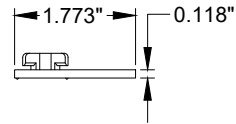
2 WOOD PROFILE, SASH
F51-0001-39 WOOD



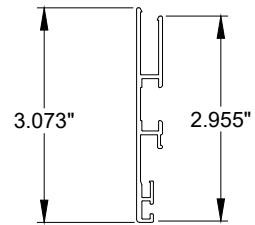
3 WOOD PROFILE, BOTTOM
F51-0019-1 WOOD



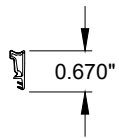
4 WOOD PROFILE, SIDE
F41-0006-1 WOOD



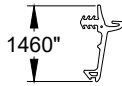
5 FRAME CLADDING FASTENER
E41-0116-1 PLASTIC GF 30



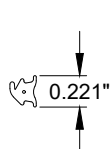
6 FRAME CLADDING PROFILE E51-0002
ALUMINUM 6060 T5 0.055\"/>



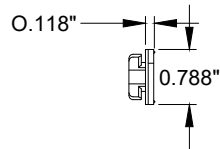
7 SASH GASKET E51-0006
EPDM 60 DUR



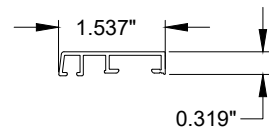
8 FRAME GASKET E51-1012
EPDM 70 DUR



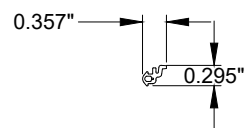
9 FRAME GASKET E41-1003
EPDM 80 DUR



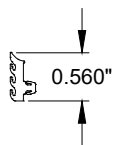
10 SASH CLADDING FASTENER
E41-0114 PLASTIC GF 30



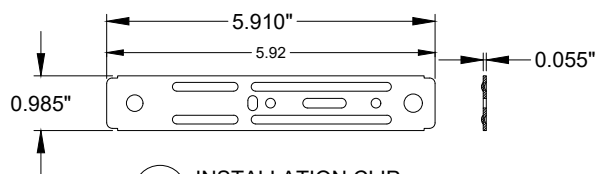
11 SASH CLADDING PROFILE E55-0001
ALUMINUM 6060 T5 0.055\"/>



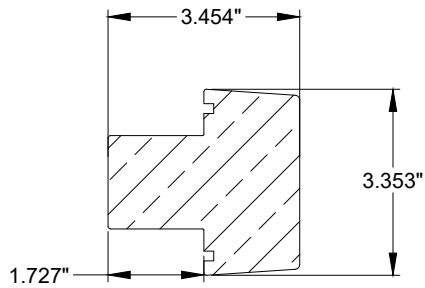
12 EXT. GLAZING GASKET
E41-1029 EPDM 80 DUR



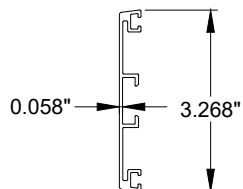
13 INT. GLAZING GASKET
E41-1002 EPDM 80 DUR



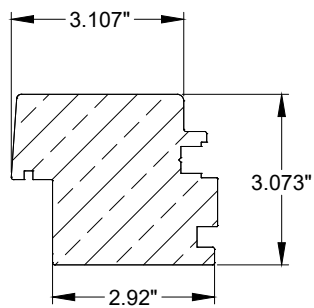
14 INSTALLATION CLIP
GALVANIZED STEEL
0.0551\"/>



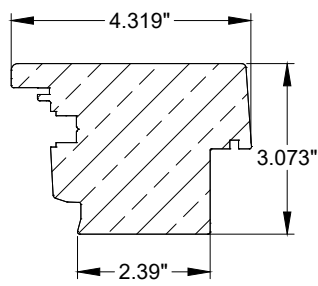
20 WOOD PROFILE, MUNTIN
F51-0029-39 WOOD



21 MUNTIN CLADDING PROFILE E55-0011
ALUMINUM 6060 T5 0.058\"/>



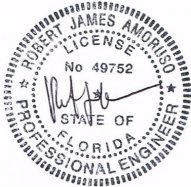
22 WOOD PROFILE, LEFT
ASTRAGAL STILE
F51-0051-39 WOOD



23 WOOD PROFILE, RIGHT
ASTRAGAL STILE
F51-0053-39 WOOD

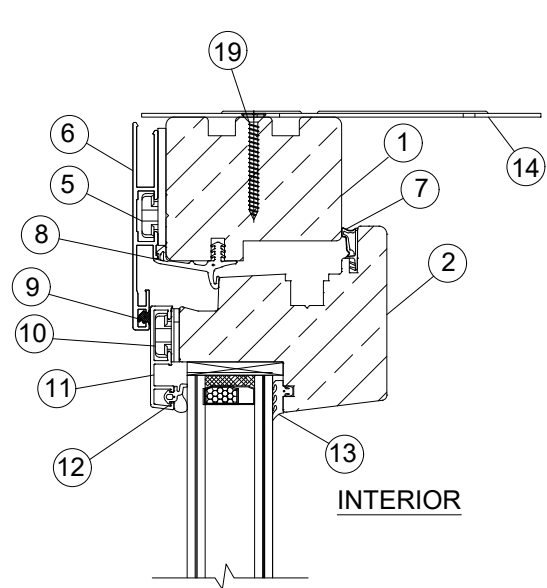
UNILUX GmbH Nikolaus-Meeth-Strab1 Salmtal-Germany		
SERIES HADKZ DBL CASEMENT WOOD CLAD WINDOW NON-IMPACT COMPONENTS		
DRAWN: JRM	DWG NO. NL-0125	REV -
SCALE NTS	DATE 11/11/2020	SHEET 8 OF 9

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

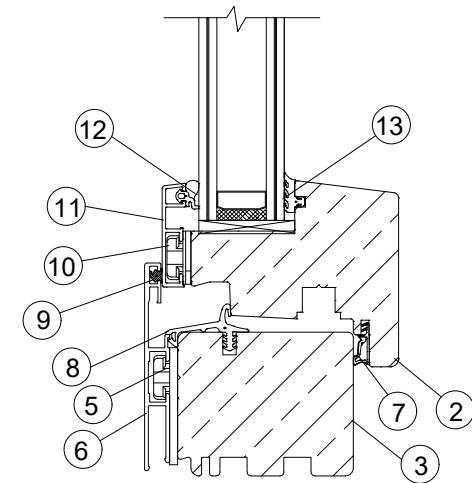


Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:29:41 -05'00'

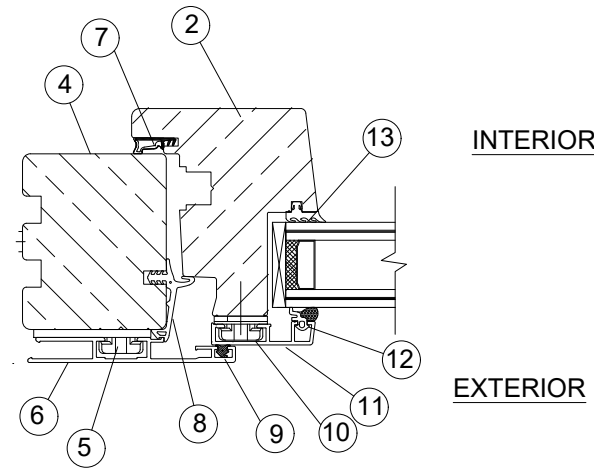
734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@
comcast.net



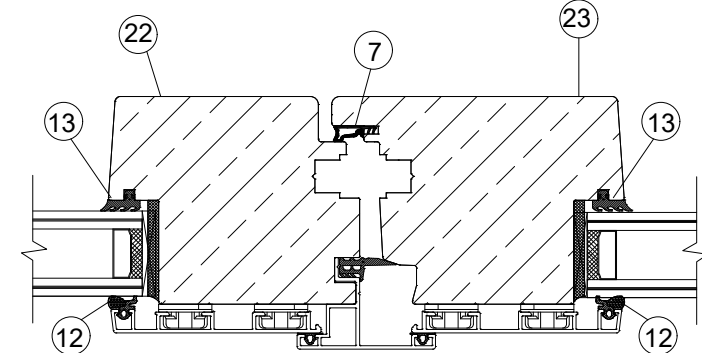
EXTERIOR



VERTICAL CROSS SECTION
FOR PARTS IDENTIFICATION



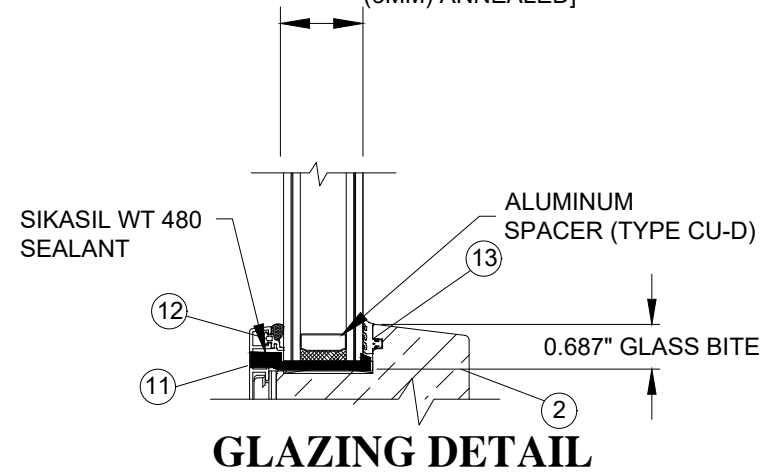
HORIZONTAL CROSS SECTION
FOR PARTS IDENTIFICATION



EXTERIOR

ASTRAGAL SECTION

1.02" (26MM) O.A. INSULATED LAM. GLASS CONSISTING OF:
EXT. 0.250" O.A. (6MM) VSA GLASS,
0.551" AIR SPACE
INT. 0.250" O.A. (6MM) VSA GLASS.
[NOTE: 0.250" O.A. (6MM) VSA GLASS COMPRISED OF 0.118"
(3MM) ANNEALED x 0.015" PVB BY KURARAY AMERICA 0.118"
(3MM) ANNEALED]



GLAZING DETAIL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	F41-0007-1	FRAME TOP, WOOD G .50	UNILUX
2	F51-0001-39	SASH, TOP,, BOTT. & SIDE WOOD G .50	UNILUX
3	F41-0019-1	FRAME, BOTTOM WOOD G. .50	UNILUX
4	F41-0006-1	FRAME, SIDE JAMB WOOD G. .50	UNILUX
5	E41-0116	FRAME CLADDING FASTENER, PLASTIC GF 30	UNILUX
6	E51-0002	FRAME CLADDING, 6060-T5 ALUMINUM	UNILUX
7	E51-1006	SASH GASKET, EPDM 60 DUR	UNILUX
8	E51-1012	FRAME GASKET, RUBBER EPDM 70 DUR	UNILUXE
9	E41-1003	FRAME GASKET EPDM DUR 80	UNILUX
10	E41-0114	SASH CLADDING FASTENER, PLASTIC GF 30	UNILUX
11	E55-0001	SASH CLADDING, 6060-T5 ALUMINUM	UNILUX
12	E41-1029	EXT. GLAZING GASKET EPDM DUR 80	UNILUX
13	E41-1002	INT. GLAZING GASKET EPDM DUR 80	UNILUX
14	PURCHASE	0.0551" THICK GALVANIZED INSTALLATION CLIP	SIMPSON
15	PURCHASE	GLAZING SEALANT, SIKASIL WT-480	SIKA
16	-----	1/4" SELF TAPPING INSTALLATION	PURCHASE
17	-----	#14 P. PHD WOOD INSTALLATION SCREW	PURCHASE
18	-----	1/4" I.T.W. A.T.T. MASONRY ANCHOR	PURCHASE
19	-----	#10 X 2" F.H. WOOD SCREW	PURCHASE
20	F51-0029-39	MUNTIN PROFILE , WOOD G.50	UNILUX
21	E55-0011	MUNTIN CLADDING, 6060-T5 ALUMINUM	UNILUX
22	F51-0051-39	LEFT ASTRAGAL STILE, WOOD G .50	UNILUX
23	F51-0053-39	RIGHT ASTRAGAL STILE, WOOD G .50	UNILUX

UNILUX GmbH
Nikolaus-Meeth-Strab1
Salmtal-Germany

SERIES HADKZ DBL CASEMENT
WOOD CLAD WINDOW NON-IMPACT
B.O.M. & GLAZING DETAILS

DRAWN:
JRM

DWG NO.
NL-0125

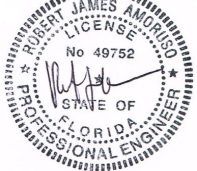
REV
-

SCALE
NTS

DATE
11/11/2020

SHEET
9 OF 9

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



Digitally signed by
Robert J Amoruso
Date: 2020.12.30
14:29:53 -05'00'

734 S CENTER ST.
ORMOND BEACH, FL 32174
robert.amoruso@comcast.net