

UNILUX GmbH

SERIES "JUMBO LINE" ALUMINUM

CLAD WOOD I.S. ENTRY DOOR

INSTALLATION ANCHORAGE DETAILS

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, 201 & 203 TEST PROTOCOLS.
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. 1 BY BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1 BY 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 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. GASKET MATERIALS SHALL BE EDPM WITH A MINIMUM 60 SHORE A DUROMETER.
6. IN NON-HVHZ OR HVHZ AREAS WHERE REQUIREMENTS FOR OPENING PROTECTION DUE TO WINDBORNE DEBRIS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED WITH THIS PRODUCT. THIS PRODUCT MEETS LARGE MISSILE IMPACT IN HVHZ AREAS AND WIND ZONE 4/MISSILE LEVEL D IN NON-HVHZ AREAS.
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 E1300-04e01.

8.2. SEE GLAZING DETAIL ON SHEET 7 OF 9.

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

8.4. APPROVED INTERLAYER FROM KURARAY AMERICA SENTRYGLAS PER CURRENT MIAMI DADE NOTICE OF ACCEPTANCE (N.O.A.).
9. DESIGNATIONS "X" STAND FOR THE FOLLOWING:

9.1. X: OPERABLE

10. 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".
11. 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 BY THE ANCHOR MANUFACTURER BELOW SEE ANCHOR TABLE ON SHEET 3 OF 9 FOR ANCHOR QUANITIES, MIN. EMBEDMENT AND EDGE DISTANCES FOR APPROVED SUBSTRATES SHOWN.
12. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55 (HVHZ) OR 0.42 (NON-HVHZ).

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MEDIUM WEIGHT (DENSITY > 117PCF)

D. METAL STUD: STEEL 18 GA., FY= 33 KSI.

TABLE OF CONTENTS		
SHEET	REV.	SHEET DESCRIPTION
1	—	GENERAL AND INSTALLATION NOTES
2	—	ELEVATION AND ANCHOR LAYOUT
3	—	ANCHOR CHART
4	—	VERTICAL & HORIZ. INSTALLATION DETAILS
5	—	VERTICAL & HORIZ. INSTALLATION DETAILS
6	—	VERTICAL & HORIZ. INSTALLATION DETAILS
7	—	B.OM. CROSS SECTIONS & GLAZING
8	—	COMPONENTS
9	—	HARDWARE DETAIL

DESIGN PRESSURE RATING (PSF)		
LARGE MISSILE IMPACT RATING		
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	UNIT TYPE
48" x 120"	± 60	JUMBO LINE DOOR
GLAZING REQUIREMENTS - SEE SHEET 7 FOR DETAILS		
APPROXIMATELY 1-1/4" THICK OVERALL 0.250" TEMPERED GLASS / .470" AIRSPACE; SWISSPACER WARM-EDGE SPACER BAR / 0.1875" HEAT STRENGTHENED GLASS / 0.105" SG BY KURARAY AMERICA / 0.1875" HEAT STRENGTHENED GLASS		

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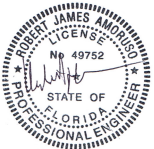
Nikolaus-Meeth-Str. 1, DE 54528 Salmthal, Germany

TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR
GENERAL AND INSTALLATION NOTES

DRAWN BY: JRM
SCALE: N.T.S.
REV: B

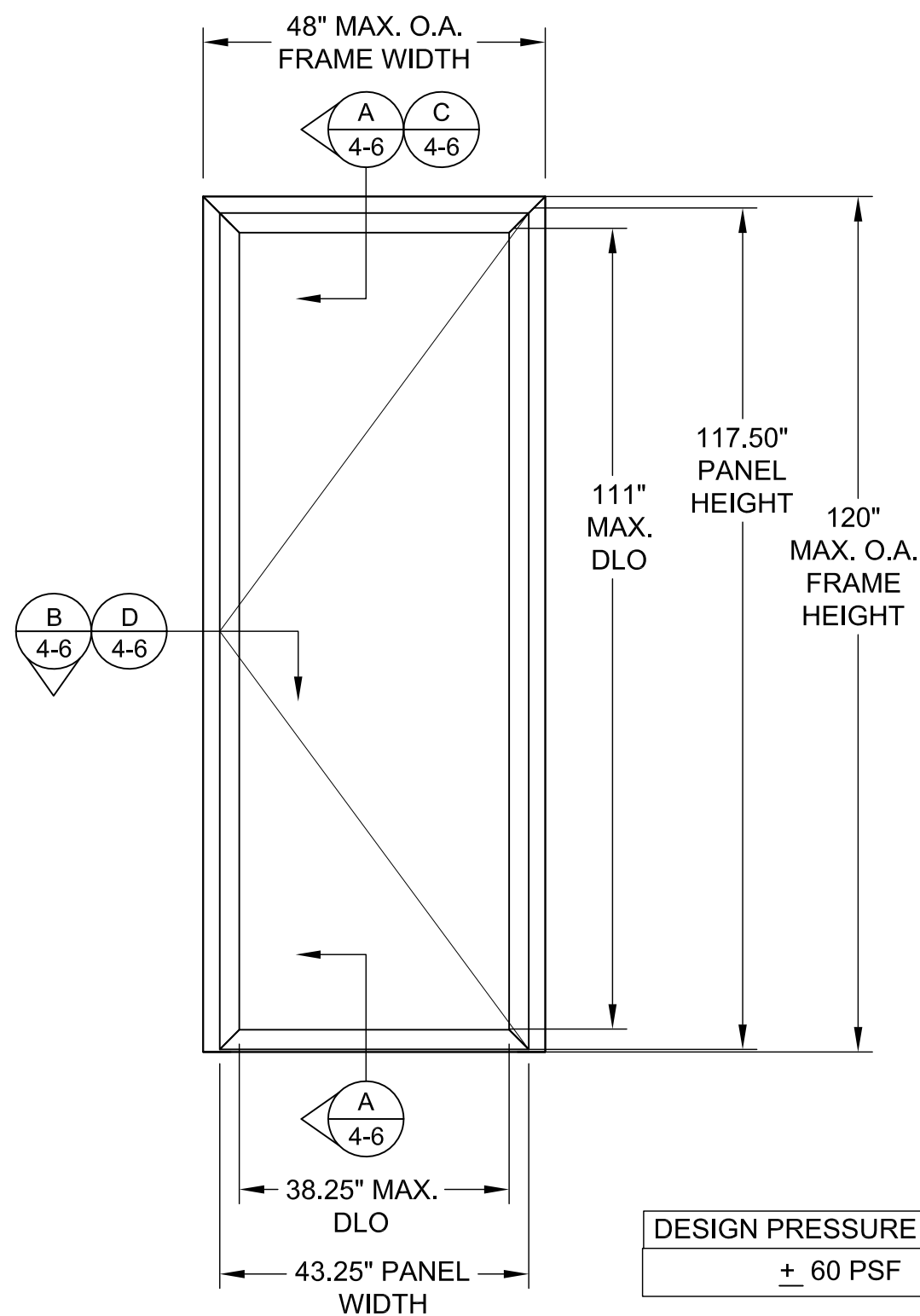
DATE: 08/01/14
DRAWING NO: NL_0026
SHEET: 1 OF 9

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



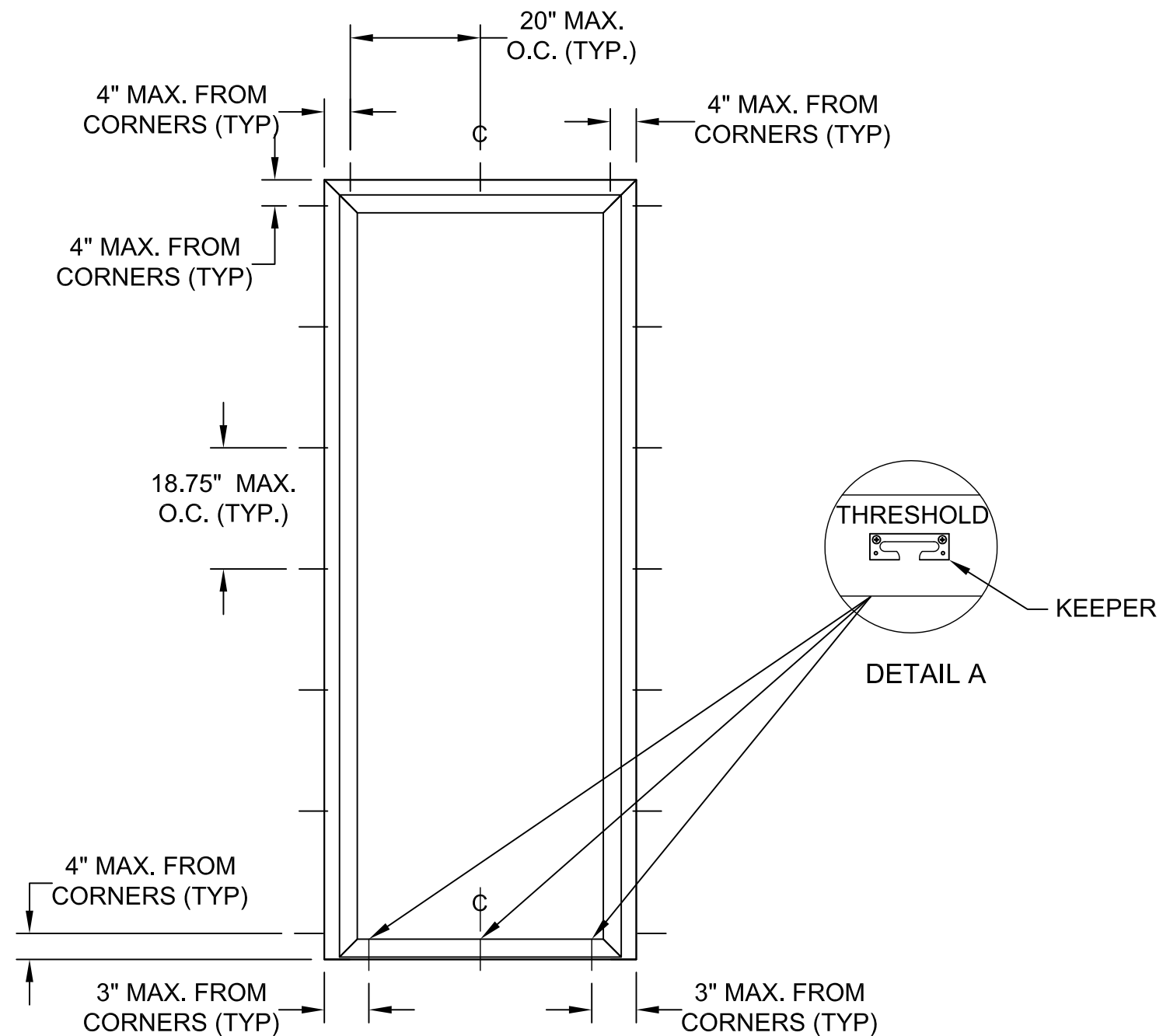
Digitally signed by Robert J Amoruso
Date: 2017.11.15 10:59:09 -05'00'

12472 LAKE UNDERHILL RD
NO. 148
ORLANDO, FL 32828
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ELEVATION DETAIL
INTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
$\pm$ 60 PSF	LARGE MISSILE

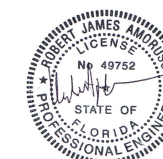


SERIES "JUMBO LINE" ALUMINUM
CLAD WOOD I.S. ENTRY DOOR
FRAME AND CLIP INSTALLATION
INTERIOR VIEW

		RJA	BY
		11/3/17	DATE
	UPDATE MANUFACTURER ADDRESS		DESCRIPTION
B	A	2/22/17	REV
	ID IGU SPACER MATERIAL		

UNILUX GmbH			
Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany			
TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR ELEVATION AND ANCHOR LAYOUT			
DRAWN BY: JRM	DATE: 08/01/14		
SCALE: N.T.S.	DRAWING NO: NL_0026		
REV: B	SHEET: 2 OF 9		

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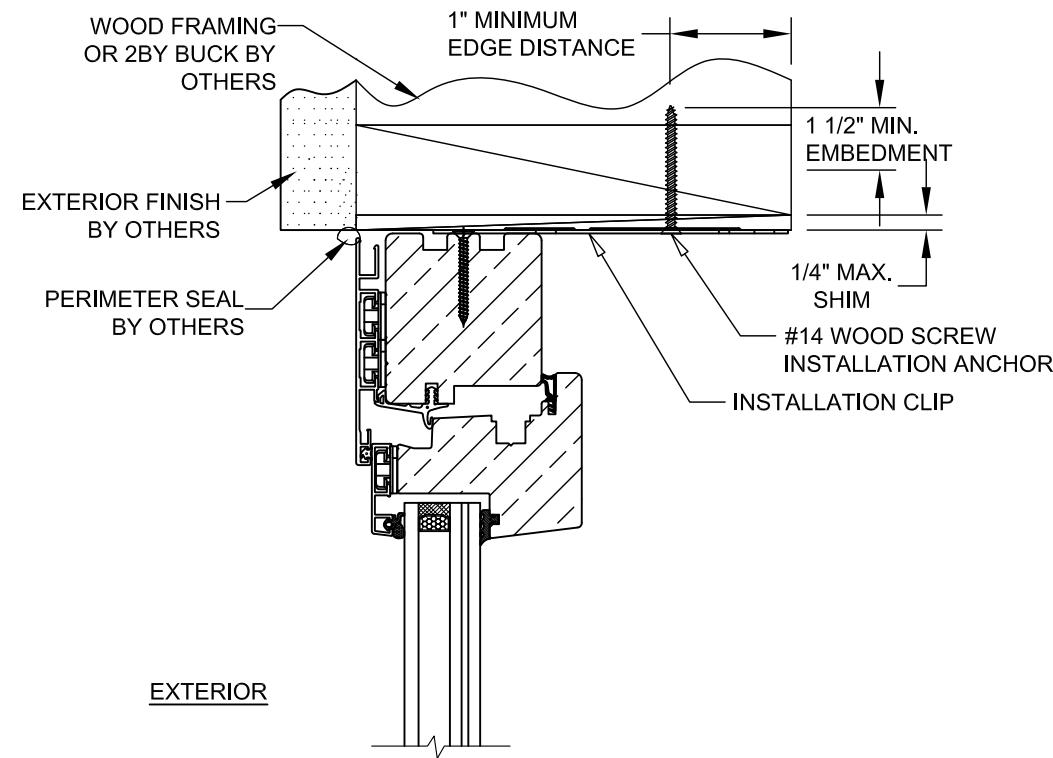


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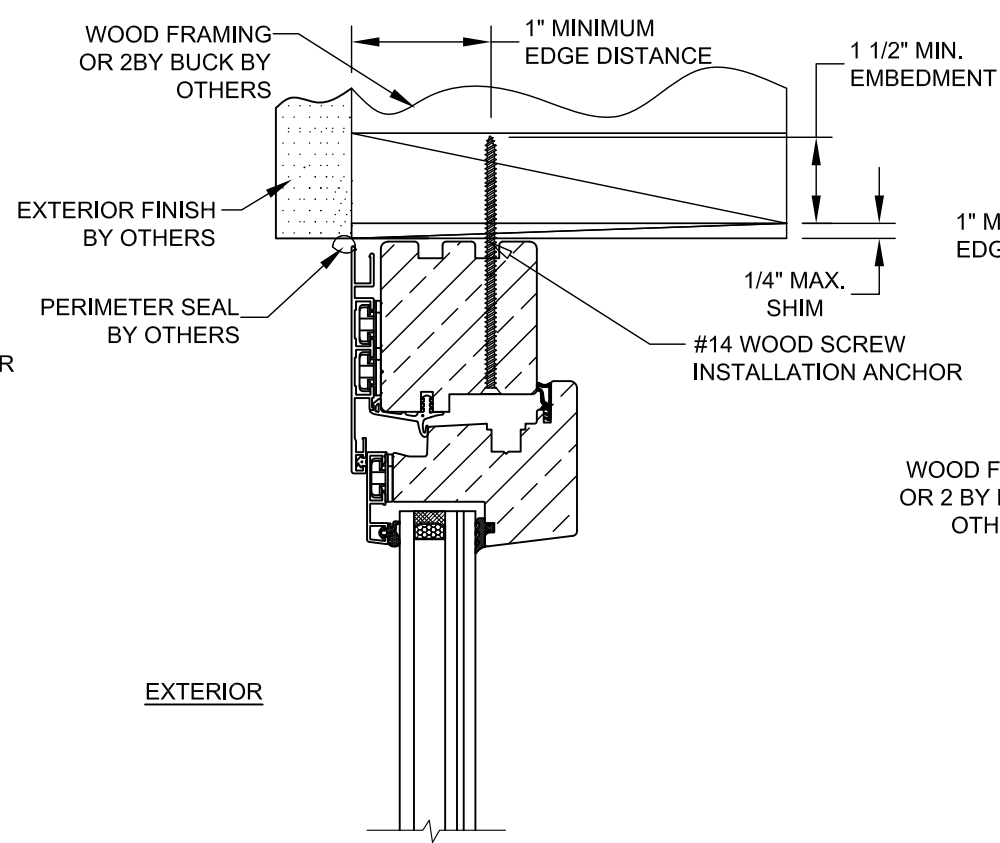
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NO. 148
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comcast.net

FRAME ANCHOR REQUIREMENTS TABLE								
ANCHORING METHOD	ANCHOR REQUIREMENTS					ANCHORING SPACING (IN)		
	ANCHOR TYPE	MIN. EMB (IN)	MIN. SPACING (IN)	MIN. EDGE DISTANCE (IN)	SUBSTRATE	END DISTANCE (IN)	JAMB ON CENTER SPACING (IN)	HEAD ON CENTER SPACING (IN)
FRAME TO CONCRETE SUBSTRATE	1/4" ITW ADVANCED THREADFORM TAPCON	1-1/2	4	1-1/2	2500 PSI CONCRETE MIN.	4	18-3/4	20
CLIP TO CONCRETE SUBSTRATE								
FRAME TO MASONRY SUBSTRATE	1/4" ITW ADVANCED THREADFORM TAPCON	1	4	2	ASTM C90 MEDIUM WEIGHT (DENSITY > 117 PCF) MASONRY (CMU) MIN.	4	18-3/4	20
CLIP TO MASONRY SUBSTRATE								
FRAME TO WOOD SUBSTRATE	NO. 14 WOOD SCREW	1-1/2	1	1	SG = 0.55 (HVHZ) MIN.	4	18-3/4	20
CLIP TO WOOD SUBSTRATE					SG = 0.42 (NON-HVHZ) MIN.			
FRAME TO STEEL STUD SUBSTRATE	NO. 14 SHEET METAL SELF-DRILLING SCREW	3 THREADS PAST INTERIOR OF STEEL STUD	3/4	3/8	18 GA. Fty = 33 KSI MIN.	4	18-3/4	20
CLIP TO STEEL STUDSUBSTRATE								
NOTES: (1) CONCRETE / MASONRY SUBSTRATE ANCHORS TO BE ITW ADVANCED THREADFORM TECHNOLOGY CONCRETE SCREWS. (2) WOOD SUBSTRATE ANCHORS TO BE ANSI B18.6.1 WOOD SCREWS OR ASME E18.6.4 TAPPING SCREWS WITH MIN. GRADE 2 STRENGTH. (3) WOOD SUBSTRATE HOLE PRE BORE: #14 WOOD SCREW PILOT HOLE - 0.151" (4) METALSUBSTRATE ANCHORS ASME E18.6.4 TAPPING SCREWS WITH MIN. GRADE 2 STRENGTH.								

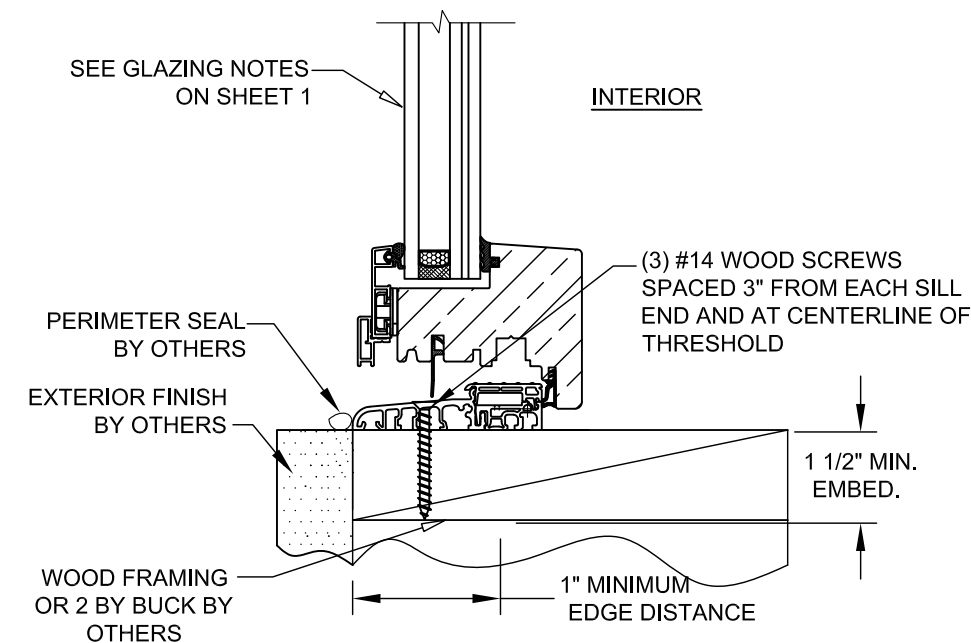
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A	ID IGU SPACER MATERIAL	2/22/17	RJA		
REV	DESCRIPTION	DATE	BY		



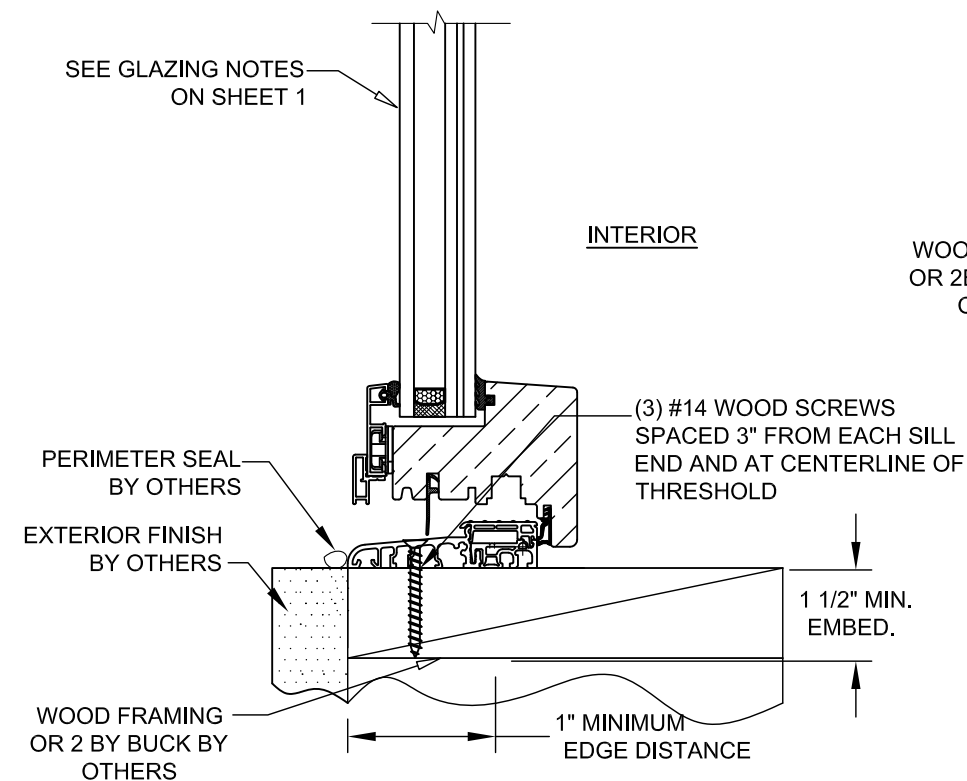
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4 **VERTICAL SECTION**
INSTALLATION CLIP
FRAME SUBSTRATE



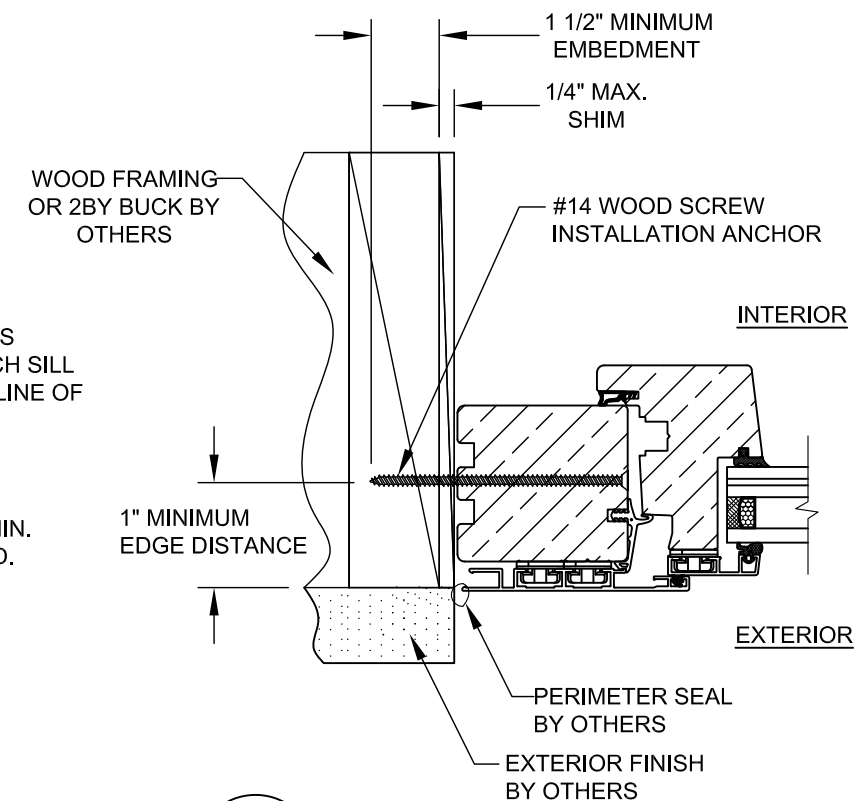
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4 **HORIZONTAL SECTION**
INSTALLATION CLIP
FRAME SUBSTRATE



A
4 **VERTICAL SECTION**
FRAME SUBSTRATE



A
4 **VERTICAL SECTION**
FRAME SUBSTRATE

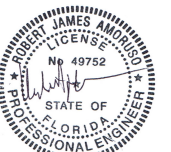


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4 **HORIZONTAL SECTION**
FRAME SUBSTRATE

DATE	BY
11/3/17	RJA
DESCRIPTION	REV
UPDATE MANUFACTURER ADDRESS	B
ID IGU SPACER MATERIAL	A

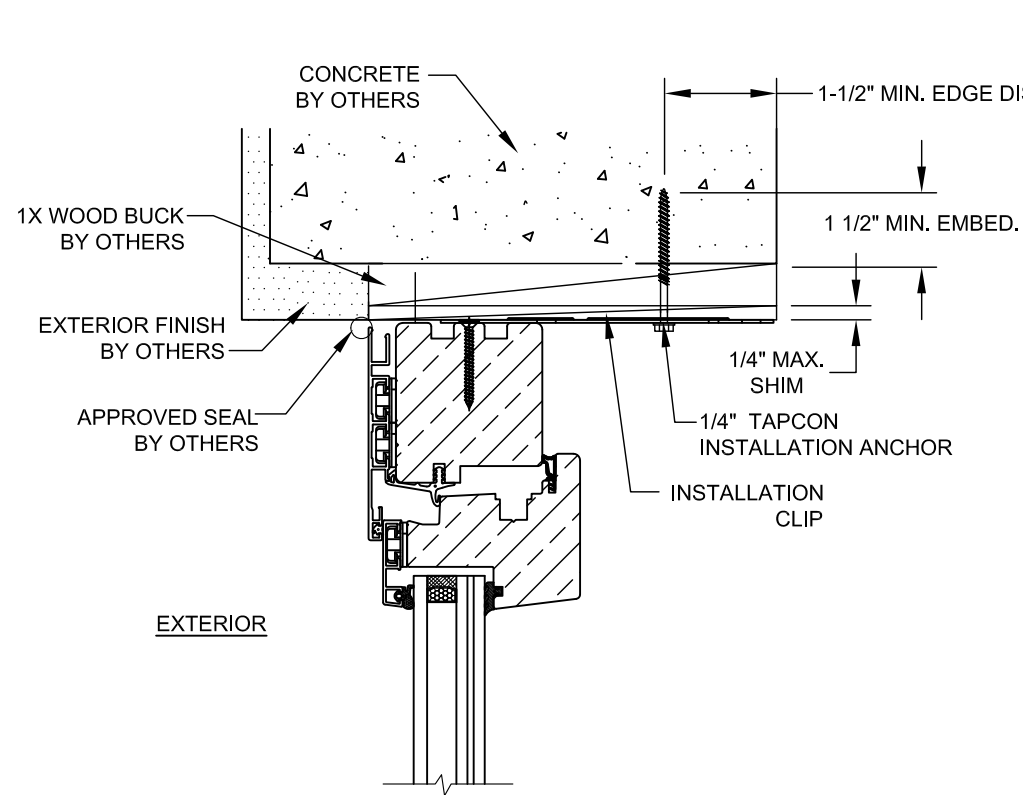
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TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR		DATE: 08/01/14	
VERTICAL & HORIZ. INSTALLATION DETAILS		DRAWING NO: NL_0026	
DRAWN BY: JRM		SCALE: N.T.S.	
SHEET: 4 OF 9		REV: B	

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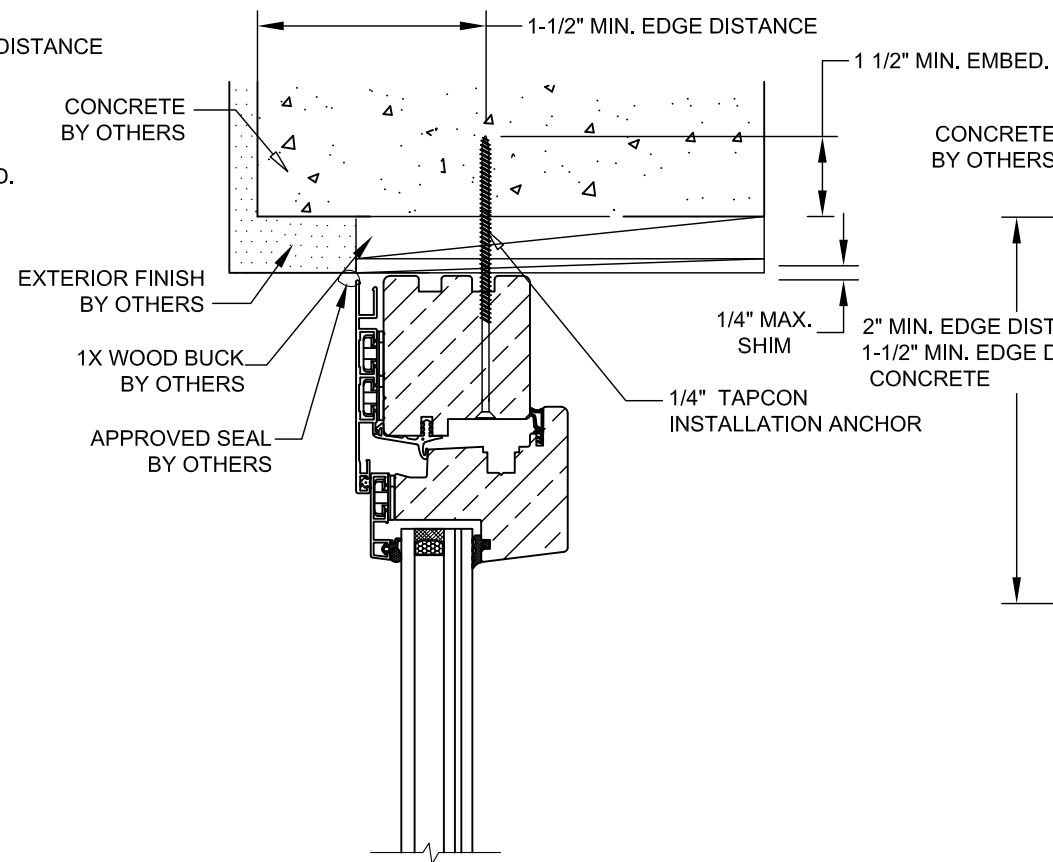


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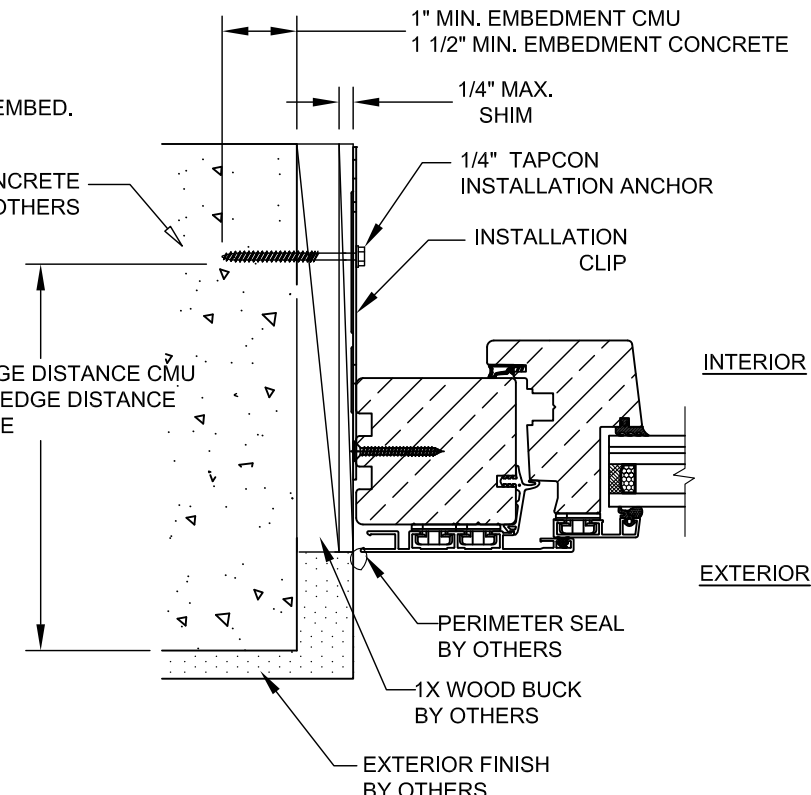
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comcast.net



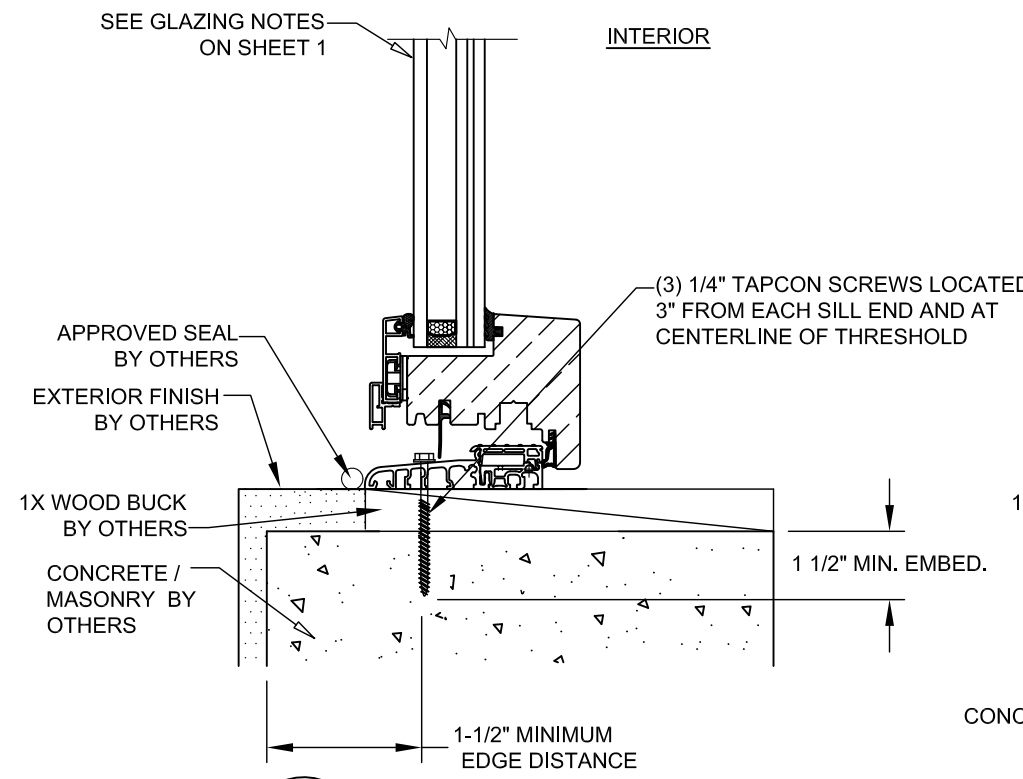
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INSTALLATION CLIP
CONCRETE SUBSTRATE



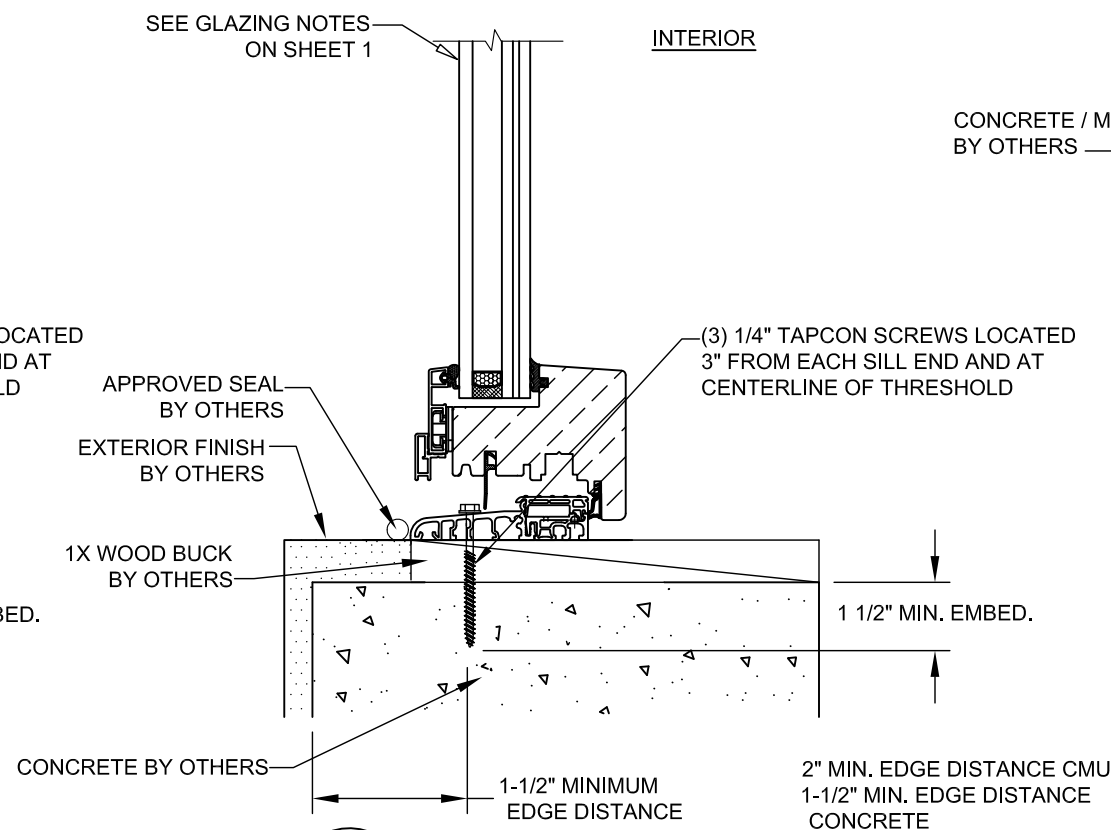
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5 **VERTICAL SECTION**
CONCRETE/MASONRY
SUBSTRATE



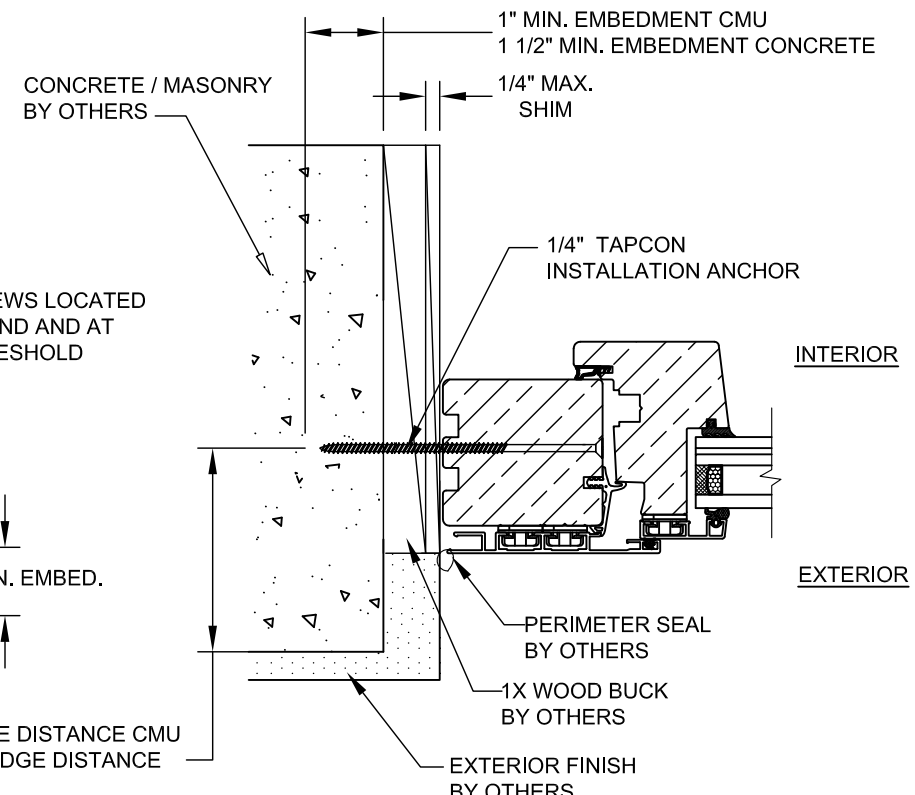
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5 **HORIZONTAL SECTION**
INSTALLATION CLIP
CONCRETE SUBSTRATE



A
5 **VERTICAL SECTION**
CONCRETE/MASONRY
SUBSTRATE



A
5 **VERTICAL SECTION**
CONCRETE/MASONRY
SUBSTRATE

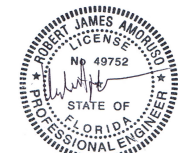


B
5 **HORIZONTAL SECTION**
CONCRETE / MASONRY
SUBSTRATE

REV	DESCRIPTION	DATE	BY
B	UPDATE MANUFACTURER ADDRESS	11/3/17	RJA
A	ID IGU SPACER MATERIAL	2/22/17	RJA

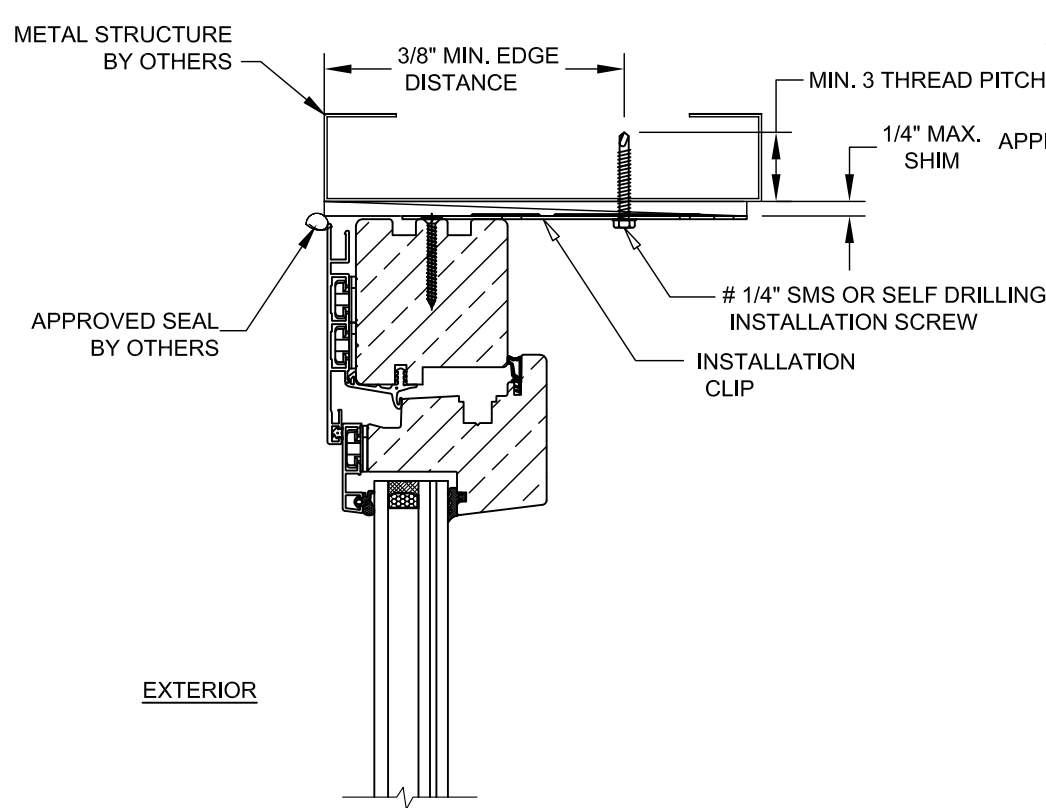
UNILUX GmbH Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany		DATE: 08/01/14	
TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR VERTICAL & HORIZ. INSTALLATION DETAILS		DRAWING NO: NL_0026	
DRAWN BY: JRM		SCALE: N.T.S.	
REV: B		SHEET: 5 OF 9	

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FL. P.E. NO. 49752

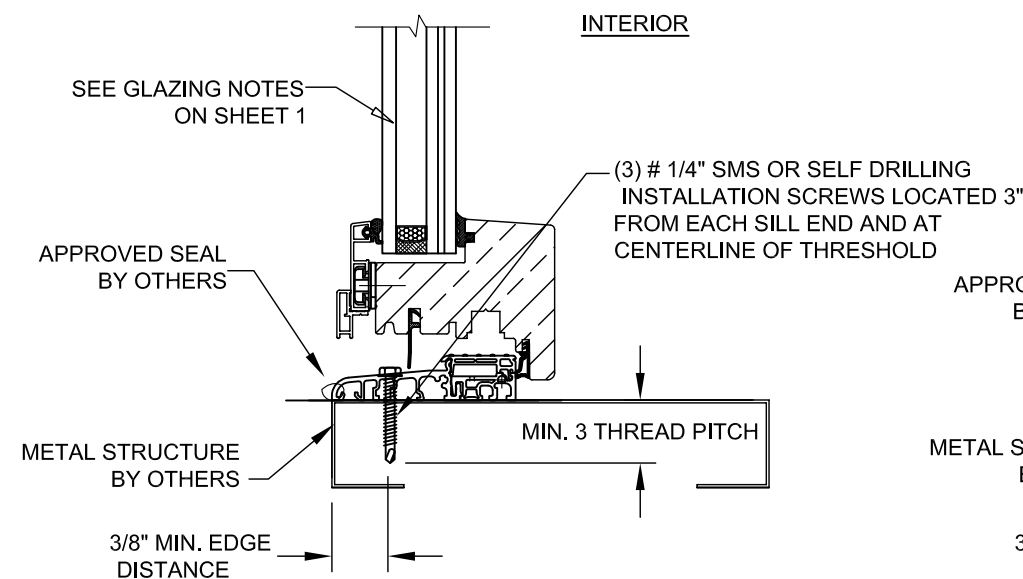


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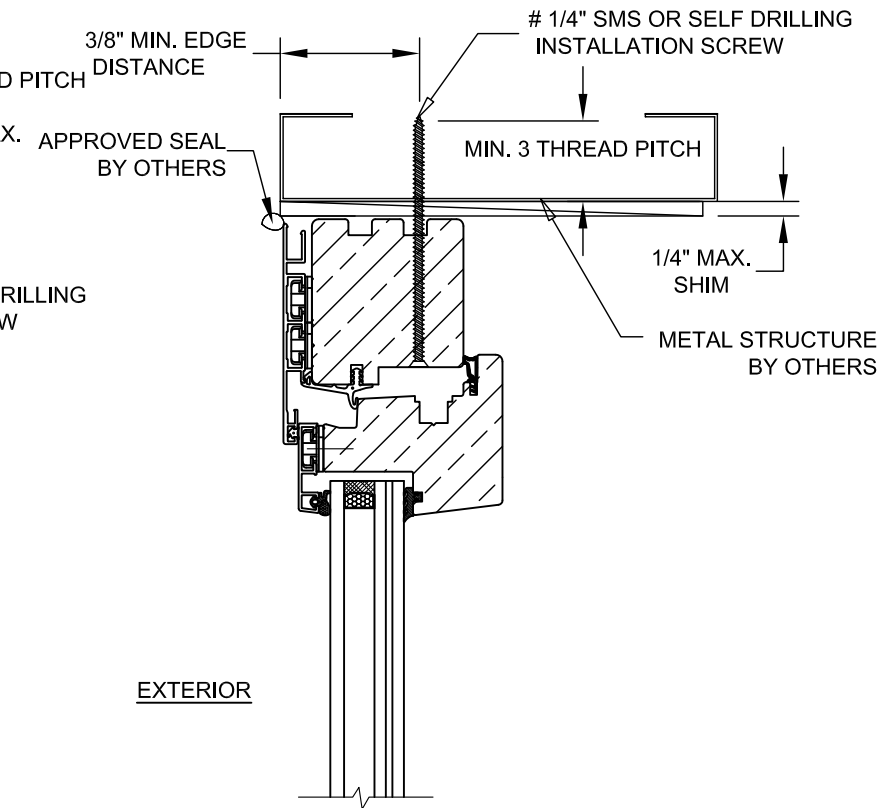
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C
6 **VERTICAL SECTION**
INSTALLATION CLIP
METAL SUBSTRATE

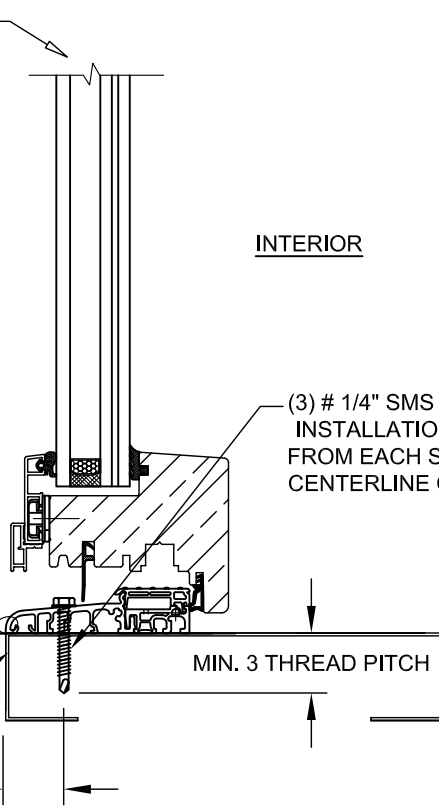


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6 **VERTICAL SECTION**
METAL FRAME SUBSTRATE

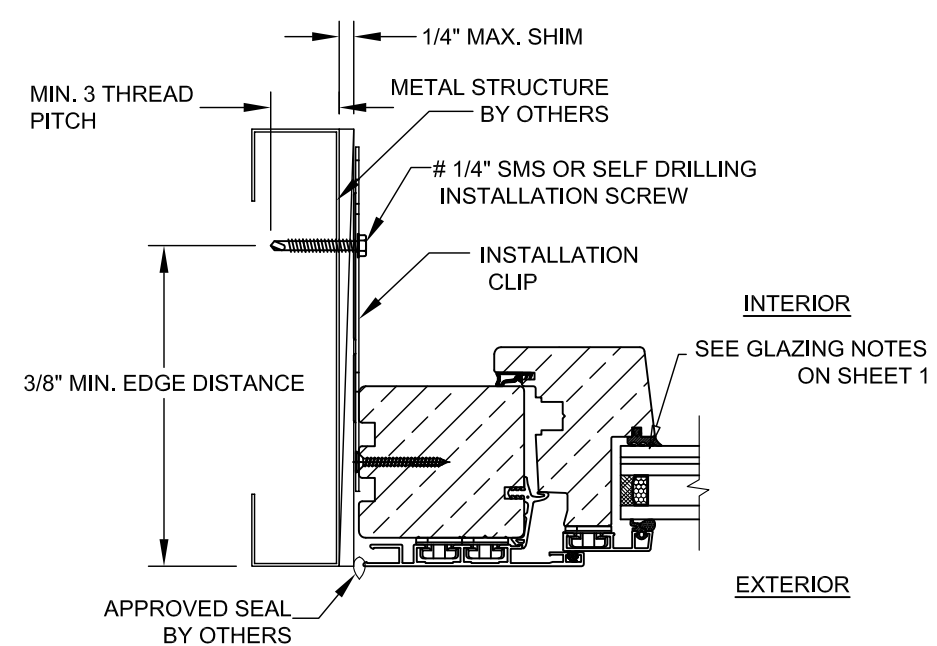


EXTERIOR

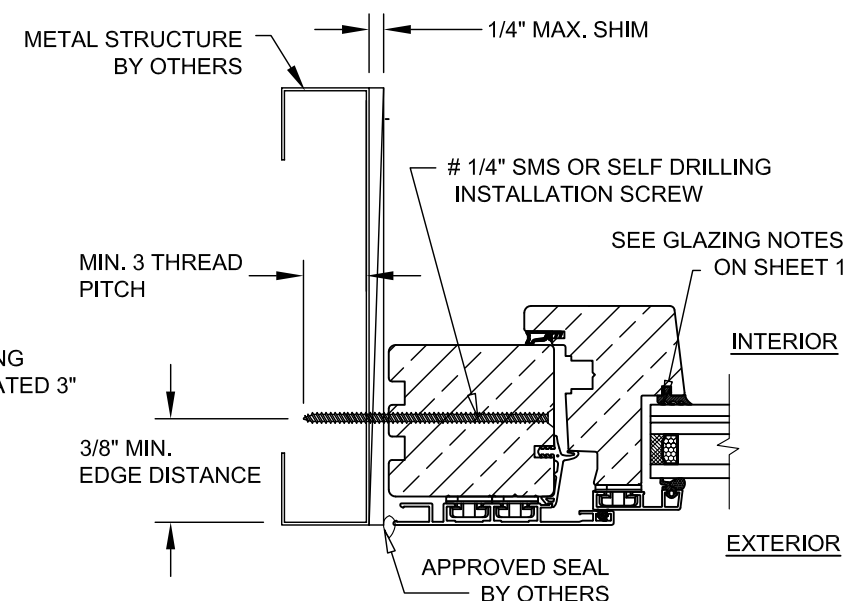
SEE GLAZING NOTES
ON SHEET 1



A
6 **VERTICAL SECTION**
METAL FRAME SUBSTRATE



D
6 **HORIZONTAL SECTION**
CLIP INSTALLATION
METAL SUBSTRATE

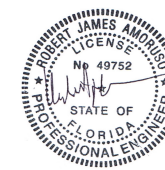


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6 **HORIZONTAL SECTION**
METAL SUBSTRATE

		RJA	BY
		11/3/17	DATE
	UPDATE MANUFACTURER ADDRESS		
	ID IGU SPACER MATERIAL	2/22/17	
		REV	

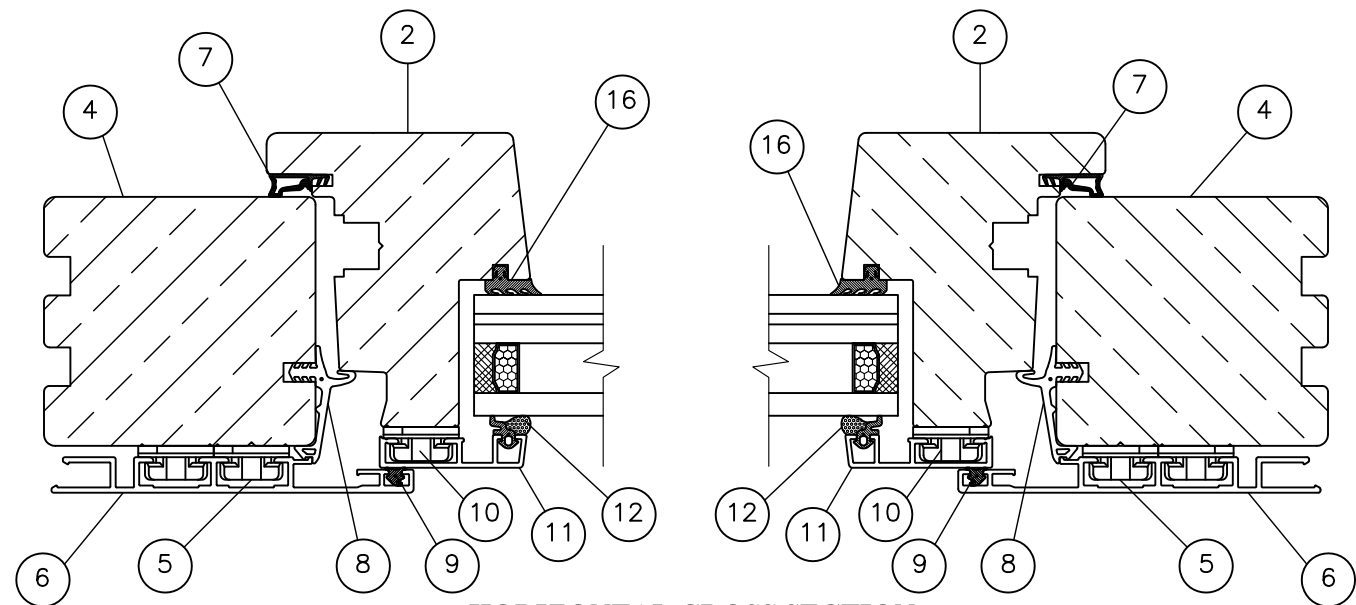
UNILUX GmbH	DATE:	08/01/14	DATE:	08/01/14
Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany	DRAWN BY:	JRM	SCALE:	N.T.S.
TE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR	SHEET:	6 OF 9	REV:	B
VERTICAL & HORIZ. INSTALLATION DETAILS				

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

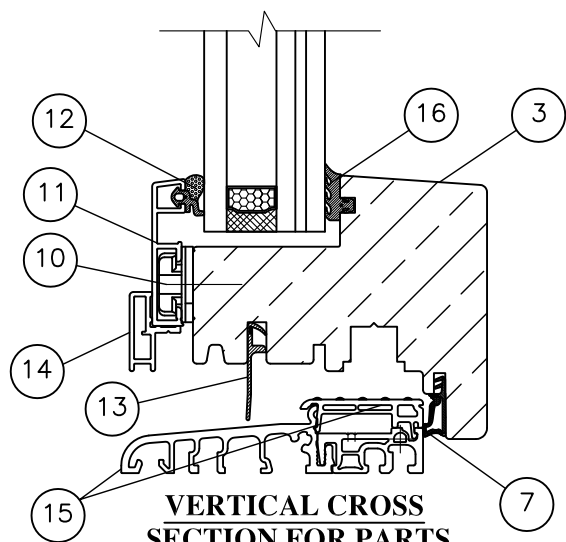
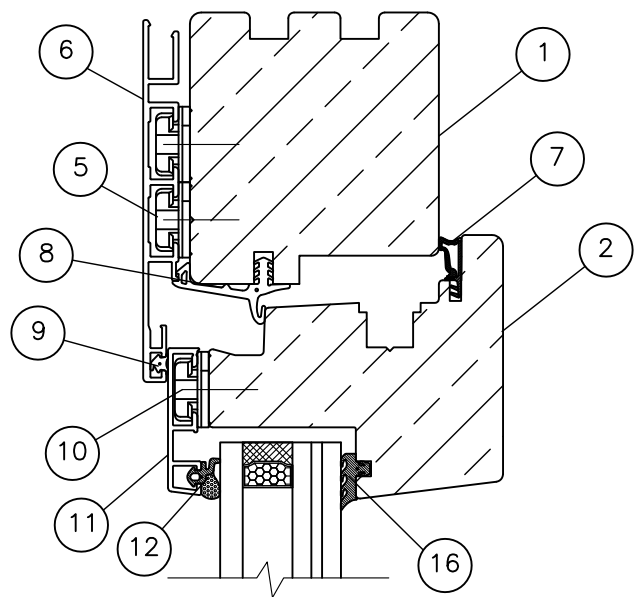


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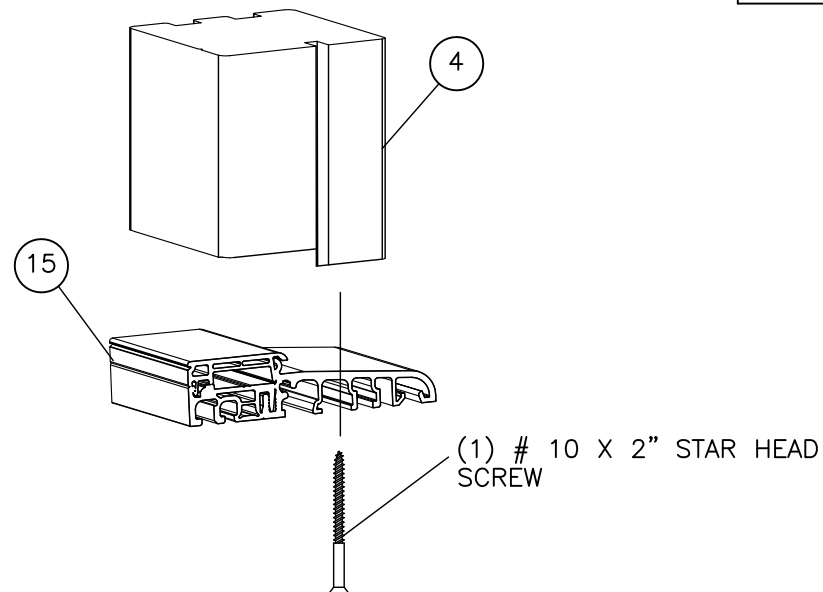
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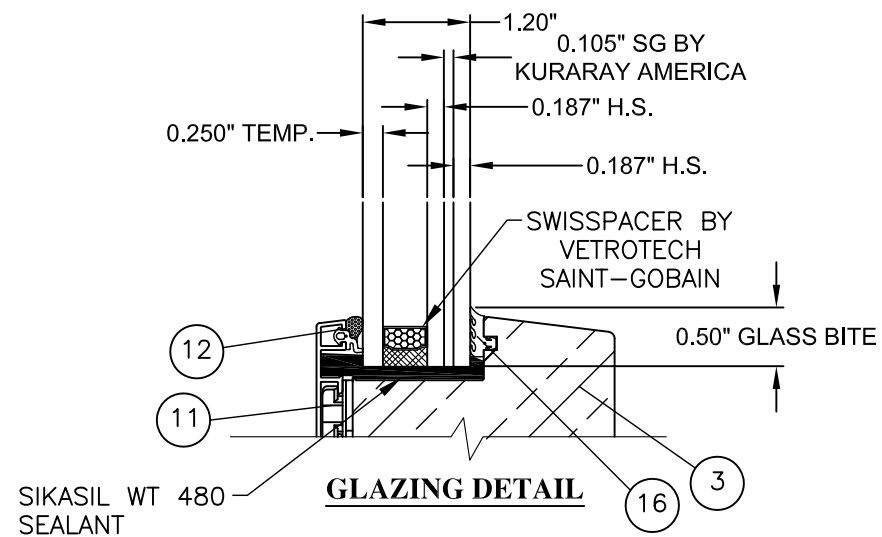
**HORIZONTAL CROSS SECTION
FOR PARTS IDENTIFICATION**



**VERTICAL CROSS
SECTION FOR PARTS
IDENTIFICATION**



**JAMB TO SILL ASSEMBLY
DETAIL**



GLAZING DETAIL

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	F41-007-2	FRAME TOP, WOOD G .50	UNILUX
2	F51-001-39	SASH, TOP & SIDE WOOD G .50	UNILUX
3	F51-0095-39	SASH, BOTTOM WOOD G. .50	UNILUX
4	F41-0006-2	FRAME, SIDE JAMB WOOD G. .50	UNILUX
5	E41-0116	CLADDING FASTENER, PLASTIC GF 30	UNILUX
6	E51-0075	CLADDING, 6060-T5 ALUMINUM	UNILUX
7	E51-1006	SASH GASKET, EPDM 60 DUR	UNILUX
8	E51-1012	FRAME GASKET, RUBBER EPDM 70 DUR	UNILUX
9	E41-1003	SASH GASKET EPDM DUR 80	UNILUX
10	E41-0114	CLADDING FASTENER, PLASTIC GF 30	UNILUX
11	E55-0001	CLADDING, 6060-T5 ALUMINUM	UNILUX
12	E41-1029	GLAZING GASKET EPDM DUR 80	UNILUX
13	E51-1045	BOTTOM SASH SEAL	UNILUX
14	E51-0081-1	ALUMINUM PROFILE-60663-T5	UNILUX
15	E41-0050-1	FRAME SILL ASSEMBLY ALUM. 6063-T5/PVC CAP	UNILUX
16	E41-1002	GLAZING GASKET EPDM DUR 80	UNILUX
17	E41-1002	GLAZING GASKET EPDM DUR 80	UNILUX
18	PURCHASE	0.0551" THICK GALVANIZED INSTALLATION CLIP	SIMPSON
19	PURCHASE	GLAZING SEALANT, SIKASIL WT-480	SIKA
20	PURCHASE	1/4" SELF TAPPING INSTALLATION	UNILUX
21	PURCHASE	#14 P. PHD WOOD INSTALLATION SCREW	UNILUX
23	PURCHASE	1/4" I.T.W. A.T.T. MASONRY ANCHOR	UNILUX

UNILUX GmbH
Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany

DATE: 11/3/17
BY: RJA

DATE: 2/22/17
BY: RJA

DESCRIPTION: UPDATE MANUFACTURER ADDRESS
ID IGU SPACER MATERIAL
REV: B A

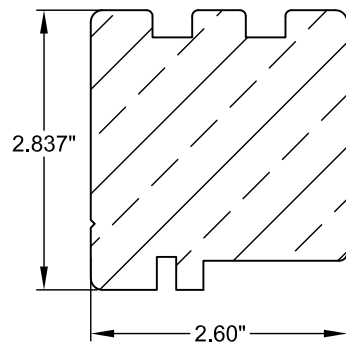
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CROSS SECTIONS, B.O.M. & GLAZING DETAIL

DRAWN BY: JRM
SCALE: N.T.S.
REV: B

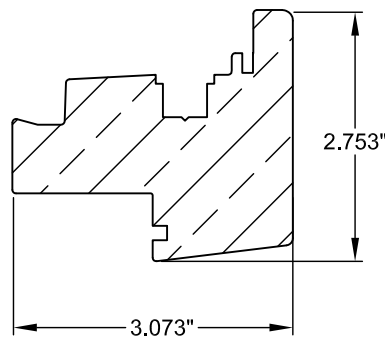
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DRAWING NO: NL_0026
SHEET: 7 OF 9

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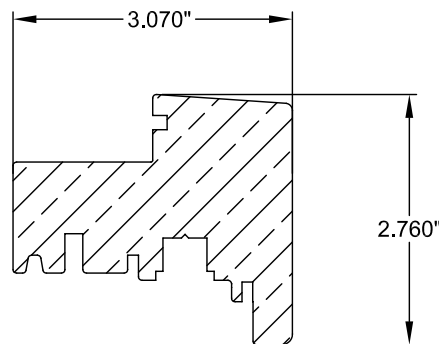
Digitally signed by Robert J Amoruso
Date: 2017.11.15 10:57:58 -05'00'
12472 LAKE UNDERHILL RD NO. 148
ORLANDO, FL 32828
robert.amoruso@comcast.net



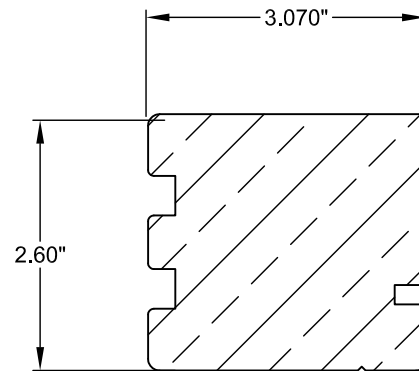
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F41-0007-2 WOOD



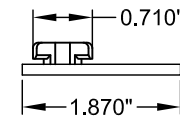
2 WOOD PROFILE, SASH
F51-0001-39 WOOD



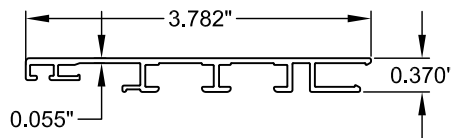
3 WOOD PROFILE, BOTTOM
F51-0095-39 WOOD



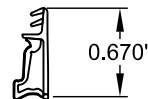
4 WOOD PROFILE, SIDE
F41-0006-2 WOOD



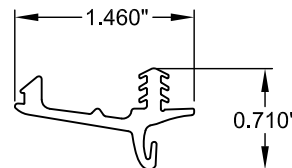
5 CLADDING FASTENER
E41-0116



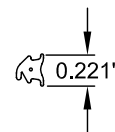
6 CLADDING, E51-0075
ALUMINUM 6063-T5



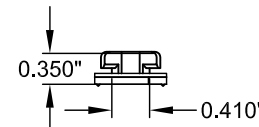
7 SASH GASKET EPDM
60 DUR. E51-1006



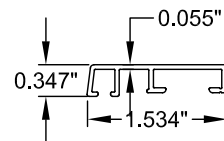
8 FRAME GASKET EPDM
70 DUR. E51-1012



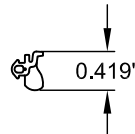
9 FRAME GASKET E41-1003
EPDM DUROMETER 80



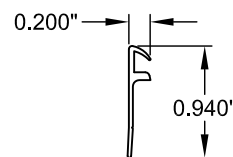
10 CLADDING FASTENER
E41-0114



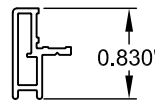
11 CLADDING, E55-0001
ALUMINUM 6063-T5



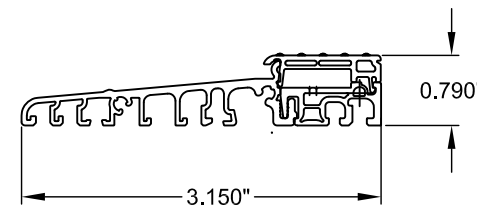
12 GLAZING GASKET E41-1029
EPDM DUROMETER 80



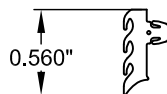
13 BOTTOM SASH SEAL
E51-1045



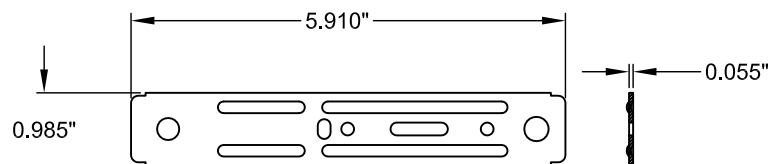
14 PROFILE DTS
ALUMINUM 6063-T5
E51-0081-1



15 FRAME SILL ASSEMBLY
E41-0050-1 ALUMINUM



16 GLAZING GASKET EPDM
60 DUR. E41-1002



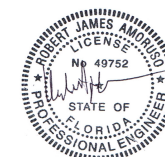
17 INSTALLATION CLIP
GALVANIZED STEEL
0.0551" THICK

UNILUX GmbH
Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany

TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR COMPONENTS

DRAWN BY:	JRM	DATE:	08/01/14
SCALE:	N.T.S.	DRAWING NO.:	NL_0026
REV:	B	SHEET:	8 OF 9

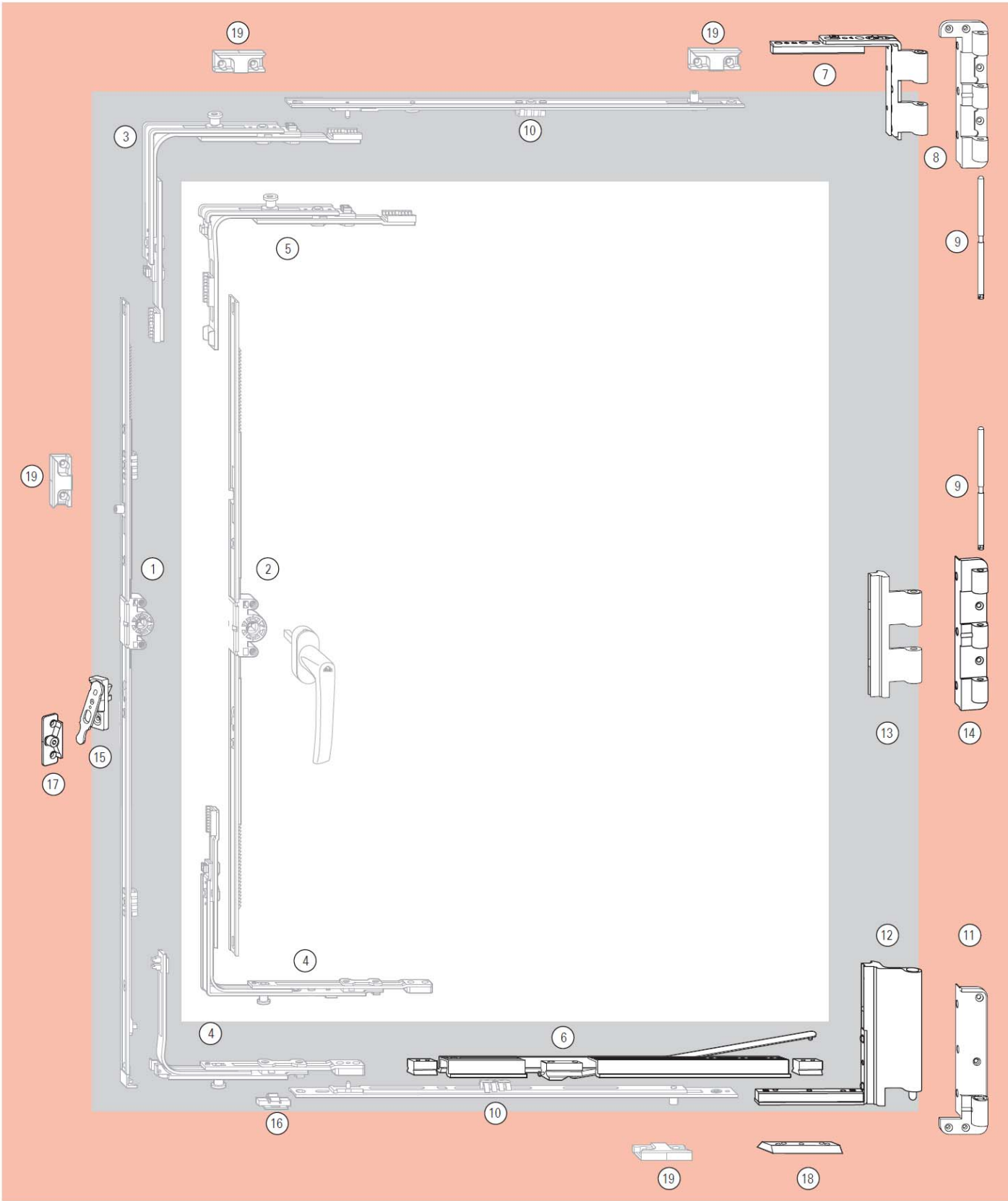
ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed by
Robert J Amoruso
Date: 2017.11.15
10:57:49 -05'00'

12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
robert.amoruso@
comcast.net

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	-----	FIXED HANDLE-HEIGHT, 15MM BACKSET	ROTO
2	-----	VARIABLE HANDLE HEIGHT, 15 MM BACKSET	ROTO
3	-----	CORNER DRIVE	ROTO
4	-----	T&T CORNER DRIVE	ROTO
5	-----	SPECIAL CORNER DRIVE	ROTO
6	260 565	TURN RESTRICTOR 335	ROTO
7A	562001/562002	REBATE HINGE SYSTEM-600-1600-9	ROTO
7B	561999/562000	REBATE HINGE SYSTEM-600-1600-13	ROTO
8	562065/561998	STAY BEARING NY POWER HINGE	ROTO
9	562065	STAY BEARING NY POWER HINGE	ROTO
10	-----	HORIZONTAL MULTI-PART CNTR. LOCK	ROTO
11	561982/561983	PIVOT REST NT POWER HINGE	UNILUX
12	561988/561989	REBATE CORNER HINGE SYSTEM-9	UNILUX
12A	561986/561987	REBATE CORNER HINGE SYSTEM-13	UNILUX
13	561996	CENTRAL HINGE NT POWER HINGE-9	UNILUX
13A	561995	CENTRAL HINGE NT POWER HINGE-13	UNILUX
14	561994	CENTER BEARING, NT POWER HINGE	UNILUX
15	260538	LIFTING MISHANDLING DEVICE	UNILUX
16	-----	TRAVEL RESTRICTOR	UNILUX
17	-----	LIFTING MISHANDLING DEVICE	UNILUX
18	-----	TURN RESTRICTOR	UNILUX
19	-----	STRIKER	UNILUX

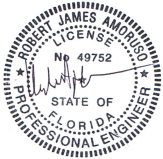


JUMBO LINE HARDWARE

		RJA	BY
		11/3/17	DATE
	UPDATE MANUFACTURER ADDRESS	RJA	DESCRIPTION
		A	ID IGU SPACER MATERIAL
		REV	

UNILUX GmbH		Nikolaus-Meeth-Str. 1, DE 54528 Salmtal, Germany	
TITLE: SERIES "JUMBO LINE" ALUM. CLAD WOOD I.S. ENTRY DOOR HARDWARE AND BILL OF MATERIALS		DRAWN BY: JRM	DATE: 08/01/14
		SCALE: N.T.S.	DRAWING NO: NL_0026
		REV: B	SHEET: 9 OF 9

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



Digitally signed by
Robert J Amoruso
Date: 2017.11.15
10:57:37 -05'00'

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