

UNILUX GmbH

SERIES "FINE LINE"

WOOD CURTAIN WALL

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 ZONE (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 SEPERATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSABILITY 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 WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS IS NOT REQUIRED FOR THE PRODUCT(S) HEREIN.
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 10 OF 14.
 - 8.3 GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
 - 8.4 LAMINATED GLASS INTERLAYER: KURARAY AMERICA SENTRYGLAS PER CURRENT MIAMI-DADE NOTICE OF ACCEPTANCE (NOA).
9. DESIGNATIONS "X", "O" STAND FOR THE FOLLOWING:
X: OPERABLE
O: FIXED

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 SHEETS 2 & 3 OF 14 FOR ANCHOR QUANTITIES, 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	---	ELEVATION AND ANCHOR LAYOUT
4	---	VERTICAL INSTALLATION-WOOD FRAME
5	---	VERTICAL INSTALLATION-CONCRETE
6	---	VERTICAL INSTALLATION-METAL STRUCTURE
7	---	VERTICAL/HORIZONTAL INSTALLATION-MASONRY/CONCRETE/WOOD
8	---	HORIZONTAL INSTALLATION
9	---	VERTICAL CROSS SECTION
10	---	HORIZONTAL CROSS SECTION & GLAZING
11	---	B.O.M. AND COMPONENTS
12	---	COMPONENTS
13	---	TILT-N-TURN HARDWARE DETAILS
14	---	JUMBO LINE DOOR HARDWARE DETAILS

DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	UNIT TYPE	IMPACT RATING
219.76" x 120.08" (SEE NOTES 1, 2 AND 3 BELOW)	± 60	CURTAIN WALL (FIXED)	LARGE MISSILE
44.75" x 94.75"		DK TILT-N-TURN	
48.03" x 120.08"		JUMBO LINE DOOR	
GLAZING REQUIREMENTS			
GLAZING DETAIL	GLAZING DESCRIPTION		
SEE SHEET 10 FOR DETAILS	<u>APPROXIMATELY 1-1/4"THICK OVERALL</u> 0.250" TEMPERED GLASS / .470" AIRSPACE; ALUMINUM SPACER / 0.1875" HEAT STRENGTHENED GLASS / 0.105" SG BY KURARAY AMERICA / 0.1875" HEAT STRENGTHENED GLASS		
NOTES			
1) FIXED CURTAIN WALL INFILLS SHALL NOT EXCEED THE TESTED SIZES SHOWN ON SHEETS 2 AND 3 OF 14. MAXIMUM INFILL SIZE IS 120.08" TALL FRAME HEIGHT X 60" WIDE CENTERLINE-TO-CENTERLINE OF VERTICAL FRAME/MULLION.			
2) HORIZONTAL MULLIONS BASED ON PROJECT REQUIREMENTS RESULTING IN INFILL HEIGHT REDUCTIONS LESS THAN 120.08" ARE ALLOWED WHILE MAINTAINING MAXIMUM OVERALL HEIGHT AND WIDTH IN NOTE 1 ABOVE.			
3) INFILL SPANS MAY BE REPEATED IN HORIZONTAL DIRECTION IN WIDTHS EXCEEDING THE OVERALL WIDTH TESTED (219.76"). THIS MEANS THAT FIXED INFILL ASSEMBLIES NOT EXCEEDING 120.08" FRAME HEIGHT X 60" CL-TO-CL FRAME/MULLION WIDTH MAY BE REPEATED AS NEEDED TO MEET PROJECT REQUIREMENTS.			

		RJA	RJA	BY
		8/30/20	9/30/17	DATE
	UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION
	B	A	REV	

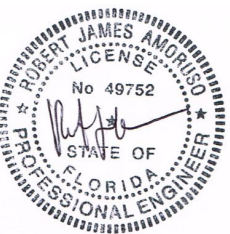
UNILUX GMBH
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY

TITLE:
SERIES FINELINE CURTAIN WALL
GENERAL AND INSTALLATION NOTES

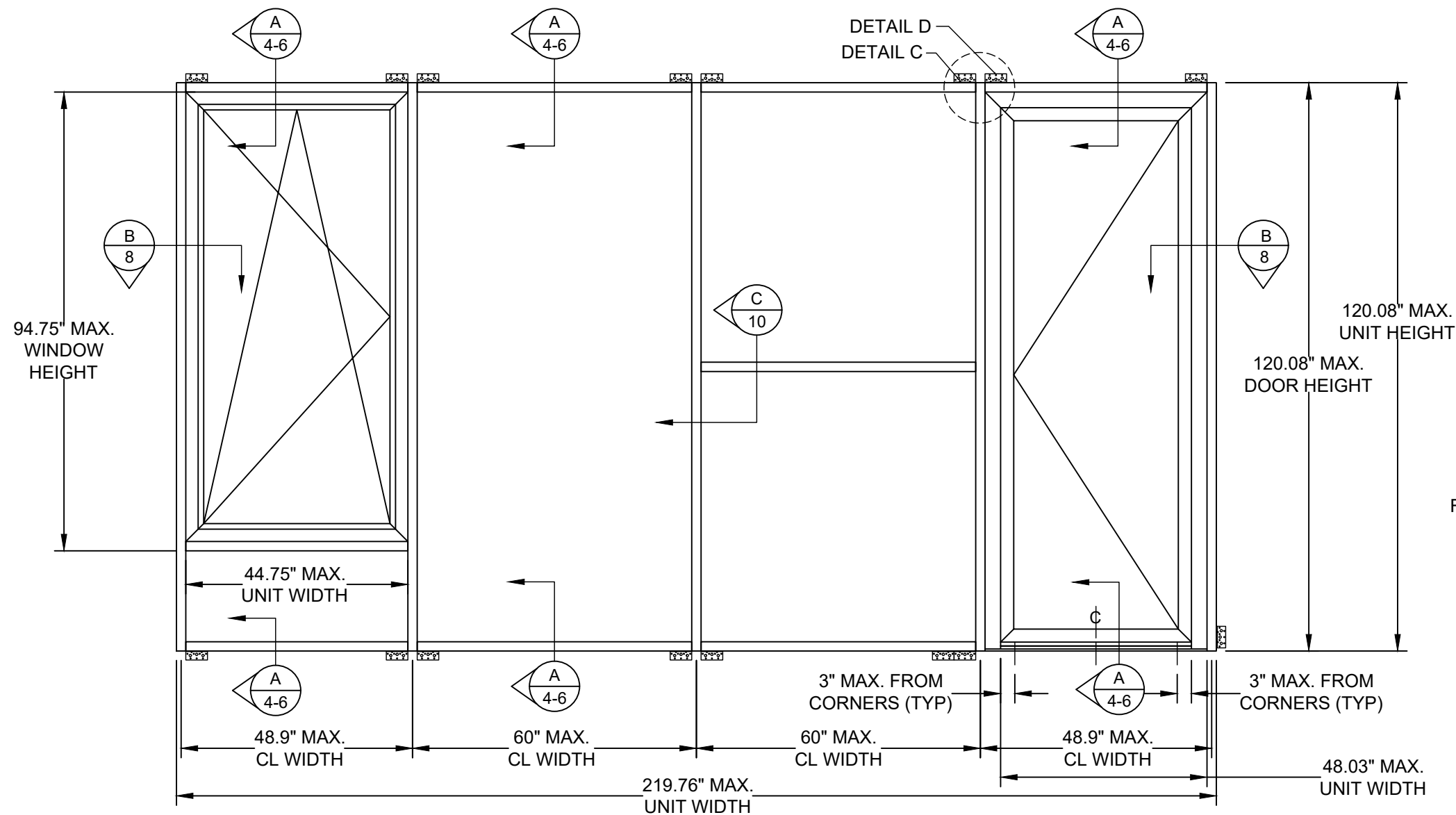
DRAWN BY: JRM
SCALE: N.T.S.
REV: B

DATE: 08/03/14
DRAWING NO: NL_0027
SHEET: 1 OF 14

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FRAME ANCHOR REQUIREMENTS TABLE

ANCHORING METHOD	ANCHOR	MINIMUM EMBED. (IN.)	MIN. SPACING (S) (IN.)	MINIMUM (IN.) EDGE DIST.	SUBSTRATE	QUANTITY PER CLIP
CLIP TO MASONRY SUBSTRATE	NOT RECOMMENDED -----					
CLIP TO CONCRETE SUBSTRATE	3/16" ITW ATT	1-3/4"	3"	1.443"	2500 PSI CONCRETE	2
CLIP TO FRAME PROFILE	# 10 WOOD SCREW	1-1/4"	3/4"	3/4"	SG= 0.41	6
BASE PROFILE TO FRAME PROFILE	# 10 WOOD SCREW	1-3/8"	13/16"	5/16"	SG= 0.41	6
CLIP TO WOOD SUBSTRATE	# 10 WOOD SCREW	1-3/8"	13/16"	5/16"	SG= 0.55 (HVHZ)	6
					SG= 0.42 (NON-HVHZ)	
CLIP TO METAL SUBSTRATE	# 12 S.M.S OR S.D.S. CREW	3-THREADS	3/4"	3/8"	18 GA- FY = 33 KSI.	6

- NOTES:
- (1) CONCRETE / MASONRY SUBSTRATE ANCORS TO BE ITW ADVANCED THREAD FORM TECHNOLOGY CONCRETE SCREWS.
- (2) WOOD SUBSTRATE ANCORS TO BE ANSI B18.6.1 WOOD SCREWS OR ASME E18.6.4 TAPPING SCREWS WITH MIN. GRADW 2 STRENGTH.
- (3) WOOD SUBSTRATE HOLE PRE BORE: #10 WOOD SCREW PILOT HOLE = 0.110" AND #14 WOOD SCREW PILOT HOLE = 0.151"

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	8/30/20		9/30/17	DATE
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	B	A	REV	

UNILUX GMBH

NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY

TITLE:

SERIES FINELINE CURTAIN WALL

ELEVATION AND ANCHOR LAYOUT

DRAWN BY: JRM

SCALE: N.T.S.

REV: B

DATE: 08/03/14

DRAWING NO: NL_0027

SHEET: 2 OF 14

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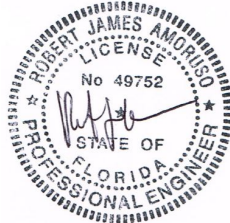
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	UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION
	B	A	REV	

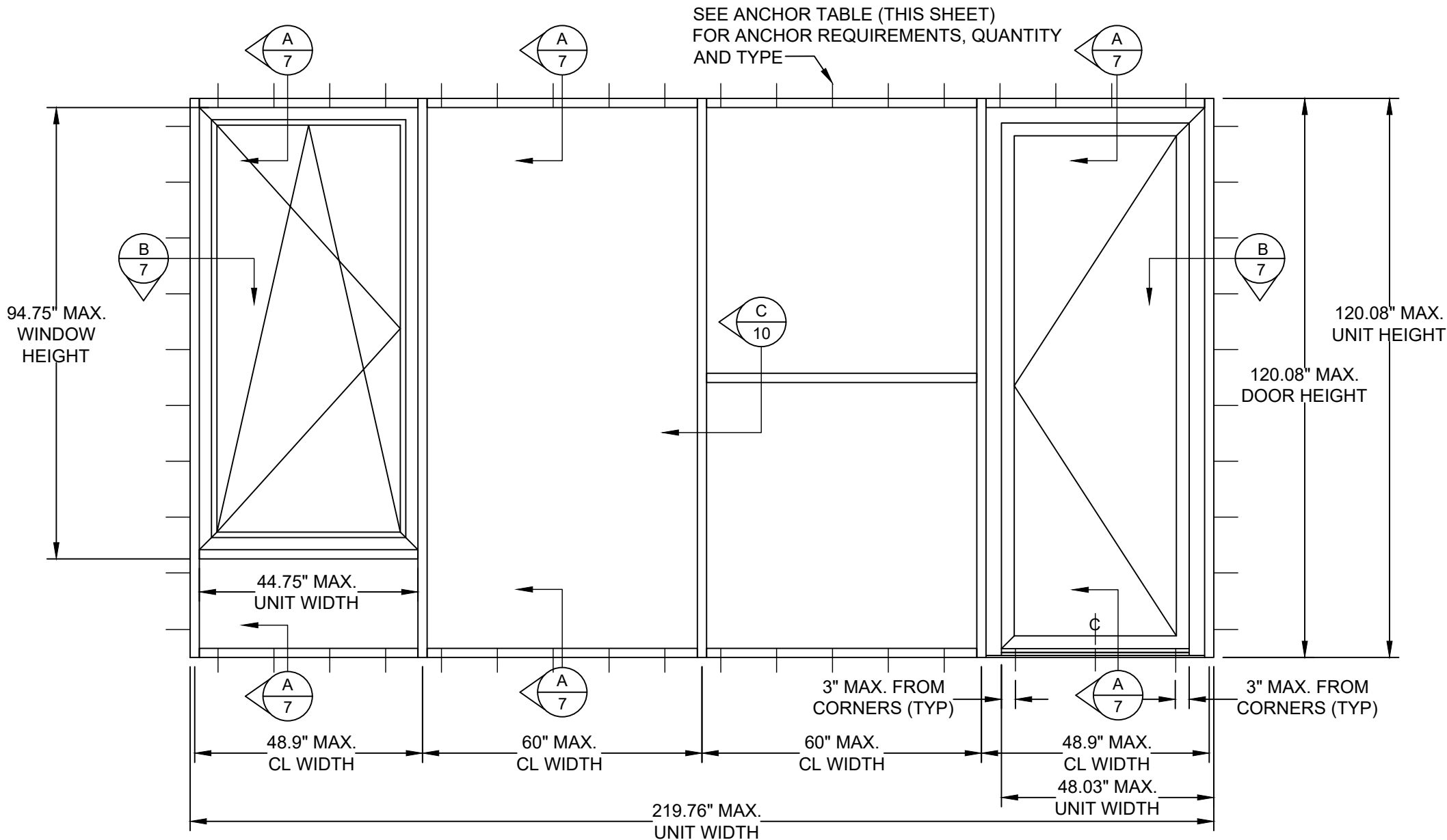
UNILUX GMBH		DATE:	08/03/14	SHEET: 3 OF 14
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY		DRAWN BY:	JRM	
TITLE: SERIES FINELINE CURTAIN WALL ELEVATION AND ANCHOR LAYOUT		SCALE:	N.T.S.	
		REV:	B	

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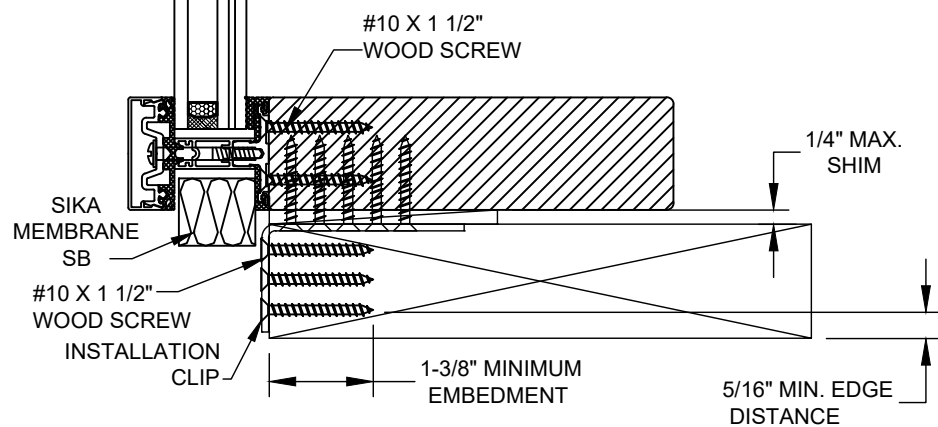
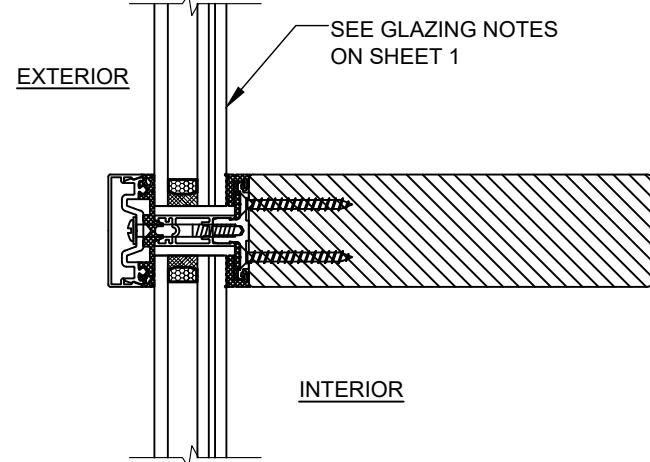
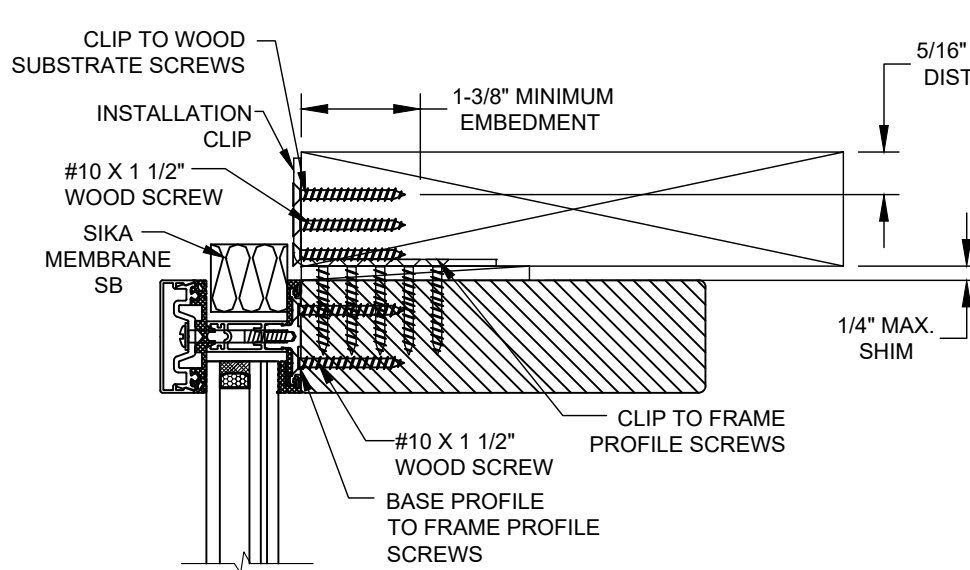


FINELINE CURTAIN WALL / THROUGH-FRAME INSTALLATION METHOD
INTERIOR VIEW

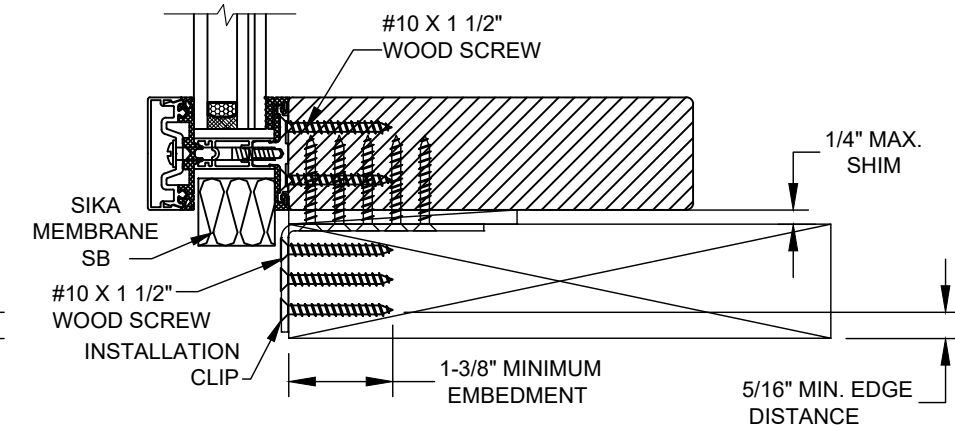
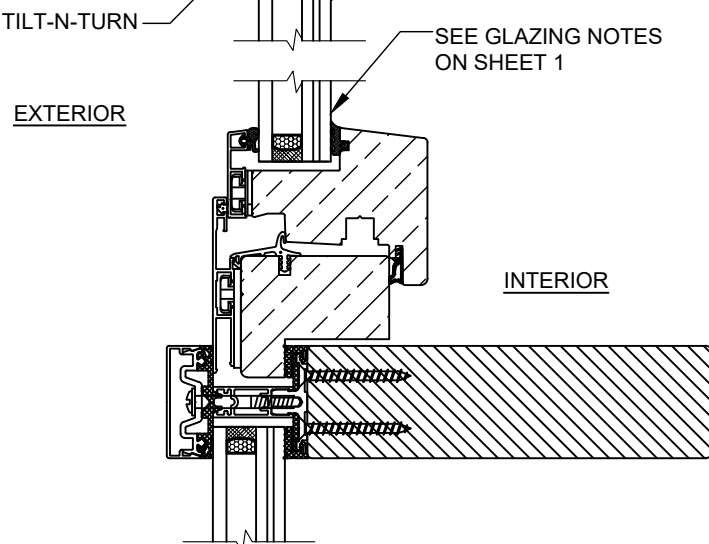
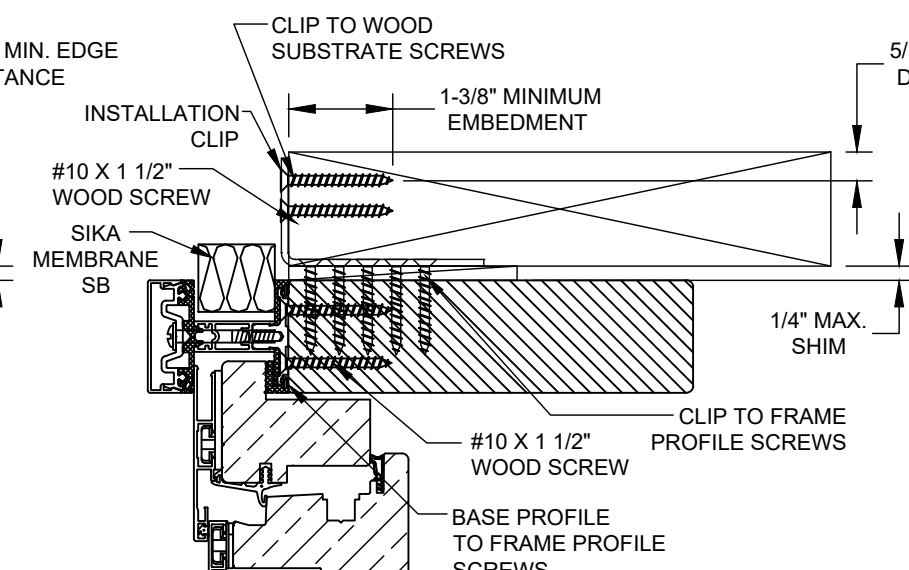
FRAME ANCHOR REQUIREMENTS TABLE

ANCHORING METHOD	ANCHOR	MINIMUM EMBED. (IN.)	MIN. SPACING (S) (IN.)	MINIMUM (IN.) EDGE DIST.	SUBSTRATE	ANCHOR SPACING (IN.)	
						END DISTANCE (IN.)	ON CENTER (IN.)
FRAME TO CONCRETE SUBSTRATE	1/4" ITW ATT	1-1/2"	4"	1-1/2"	2500 PSI CONCRETE	6	HEAD / SILL / JAMBS 12"
FRAME TO MASONRY SUBSTRATE	1/4" ITW ATT	1"	4"	2"	ASTM C90 MEDIUM WEIGHT (DENSITY> 117PCF)	6	JAMBS ONLY 12"
FRAME TO WOOD SUBSTRATE	# 14 WOOD SCREW	1-1/2"	1"	1"	SG= 0.55 (HVHZ)	6	HEAD / SILL 10"
					SG= 0.42 (NON-HVHZ)		JAMBS 13 1/2"

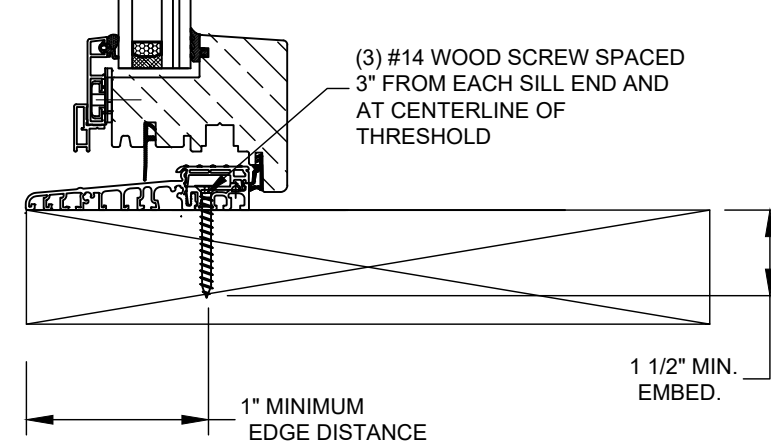
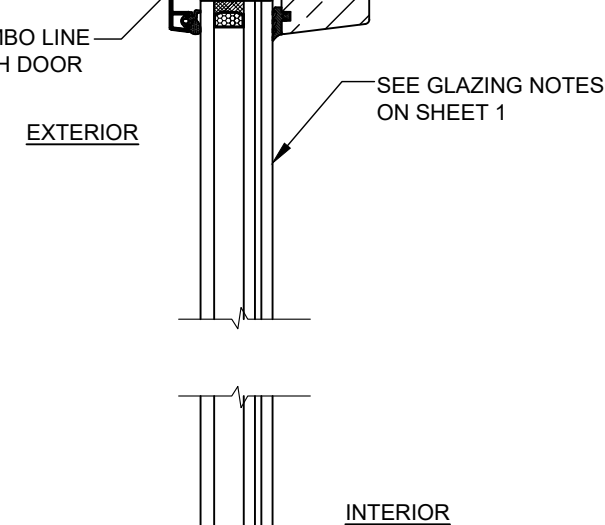
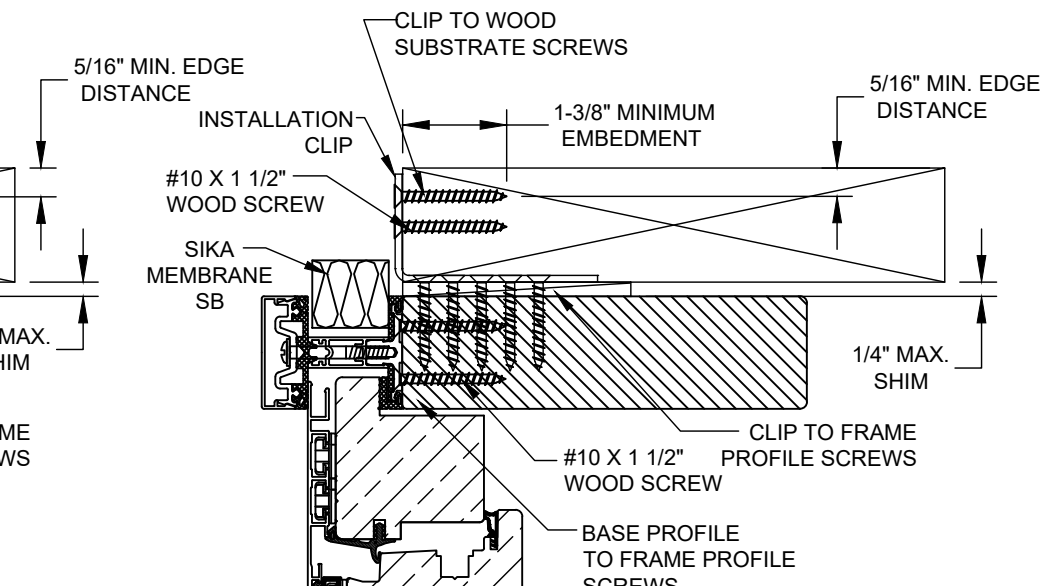
- NOTES:
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 - (2) WOOD SUBSTRATE ANCHORS TO BE ANSI B18.6.1 WOOD SCREWS OR ASME E18.6.4 TAPPING SCREWS WITH MIN. GRADE 2 STRENGTH.
 - (3) WOOD SUBSTRATE HOLE PRE BORE: #10 WOOD SCREW PILOT HOLE = 0.110" AND #14 WOOD SCREW PILOT HOLE = 0.151"



A
4 **VERTICAL SECTION**
WOOD FRAME SUBSTRATE



A
4 **VERTICAL SECTION**
WITH TILT-N-TURN
WOOD FRAME SUBSTRATE

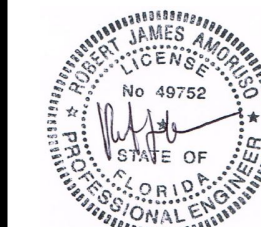


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4 **VERTICAL SECTION**
WITH I.S. FRENCH DOOR
WOOD FRAME SUBSTRATE

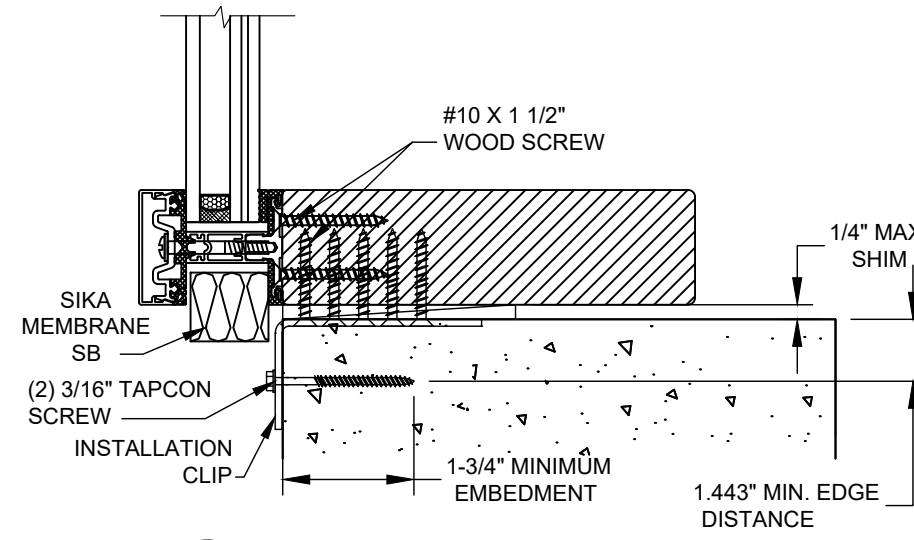
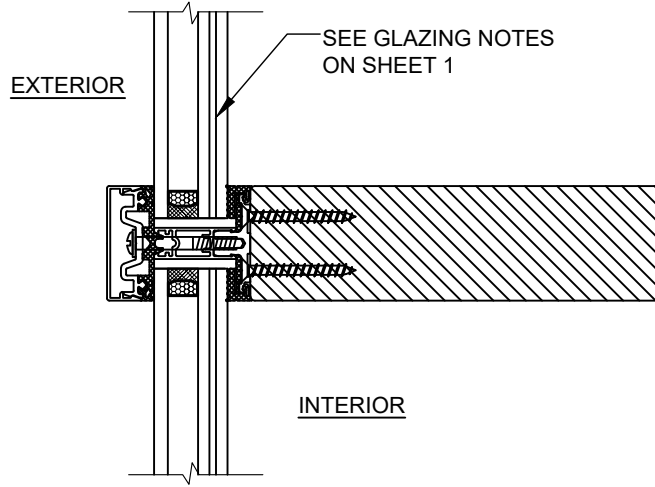
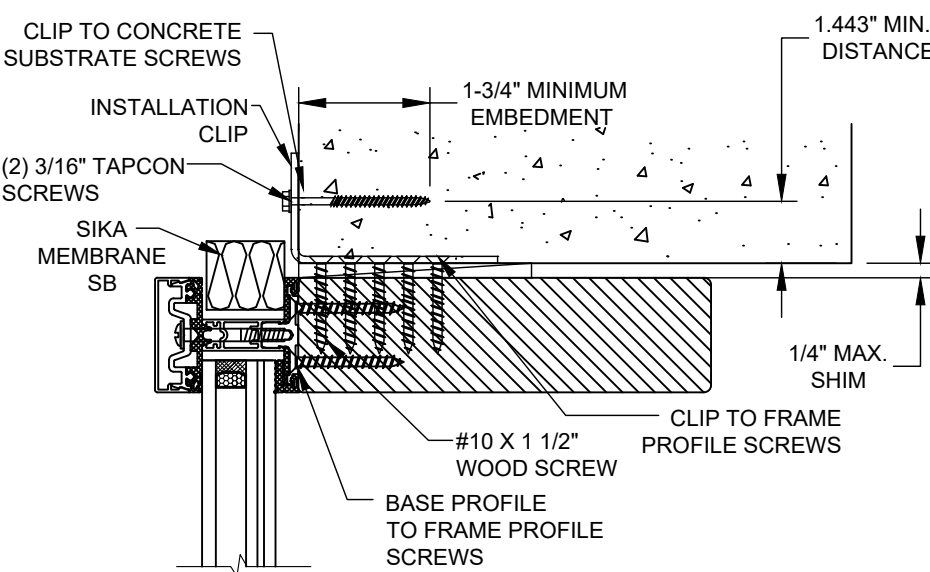
NOTE:
INTERIOR AND EXTERIOR FINISHES BY
OTHERS NOT SHOWN FOR CLARITY

UNILUX GMBH				NIKOLAUS-MEETH-STR. 1, DE 54528 SALTAL, GERMANY							
TITLE:				SERIES FINELINE CURTAIN WALL VERTICAL INSTALLATION - WOOD FRAME							
				DRAWN BY:		JRM	DATE:		08/03/14		
				SCALE:		N.T.S.	DRAWING NO:		NL_0027		
				REV:		B	SHEET:		4 OF 14		
	REV		DESCRIPTION		DATE	BY					
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		A	UPDATE TO 6TH ED. (2017) FBC		9/30/17	RJA					

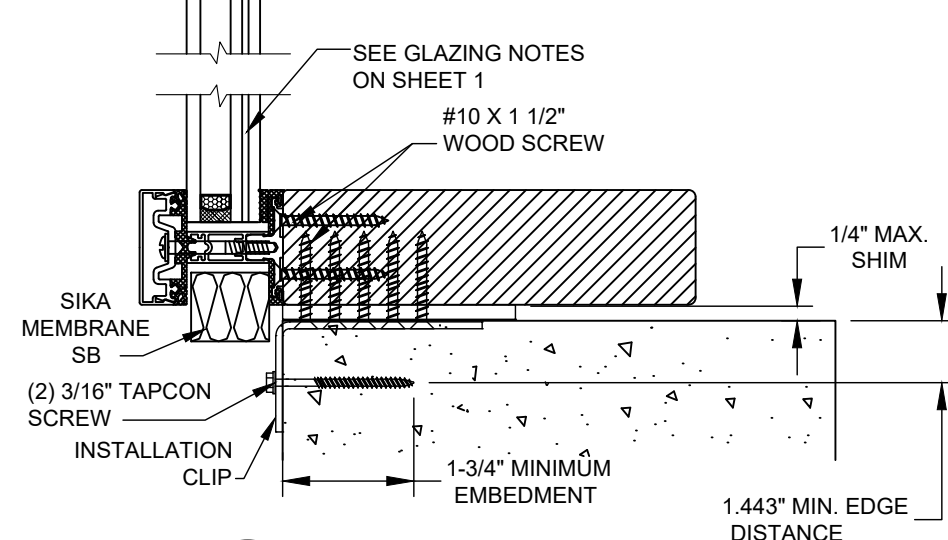
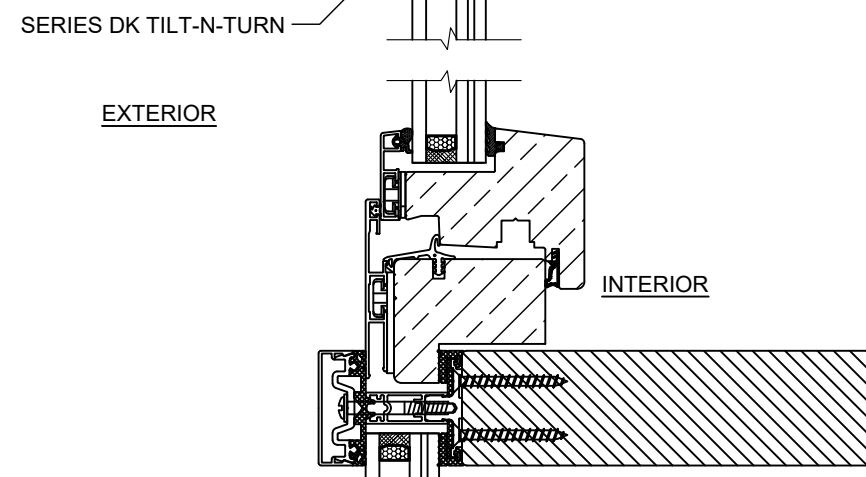
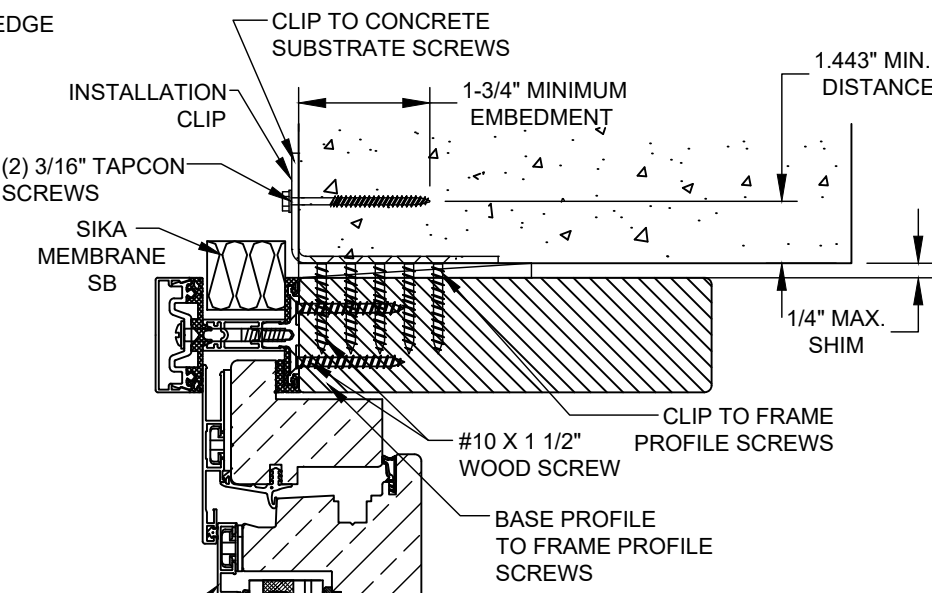
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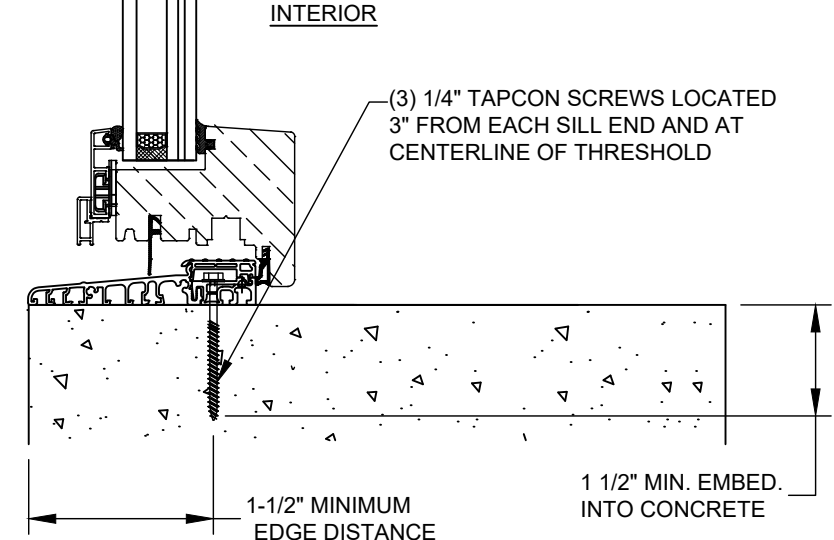
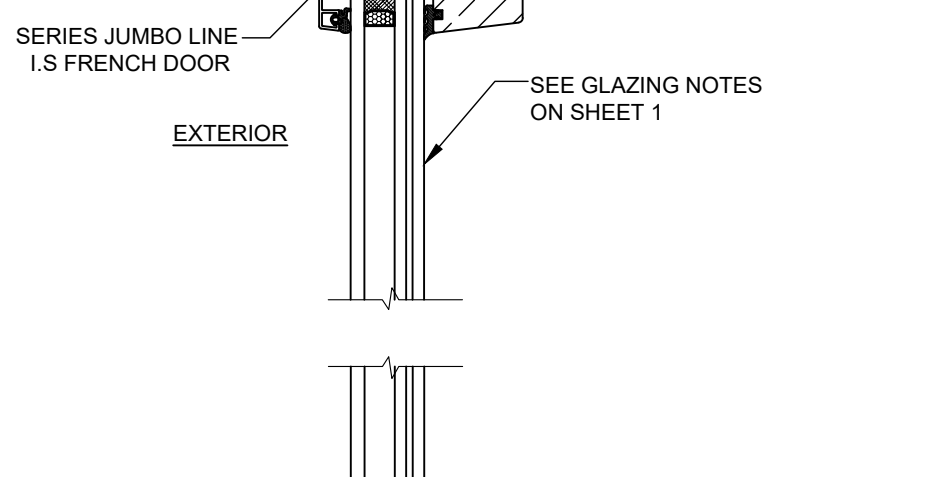
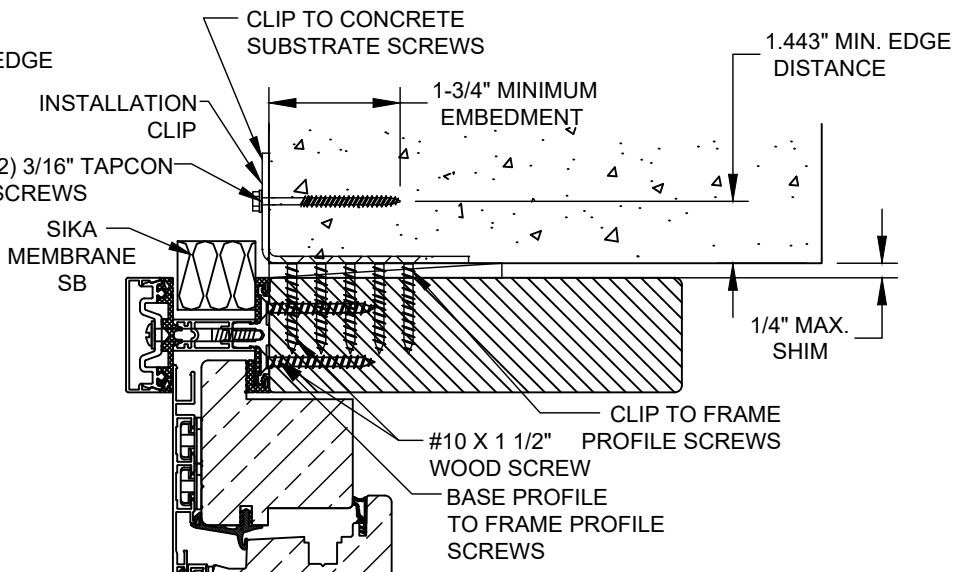
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A
5 **VERTICAL SECTION**
CONCRETE SUBSTRATE



A
5 **VERTICAL SECTION**
WITH TILT-N-TURN
CONCRETE SUBSTRATE

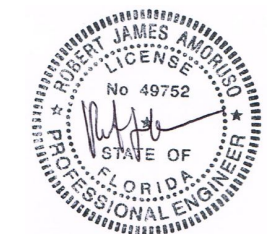


A
5 **VERTICAL SECTION**
WITH I.S. FRENCH DOOR
CONCRETE SUBSTRATE

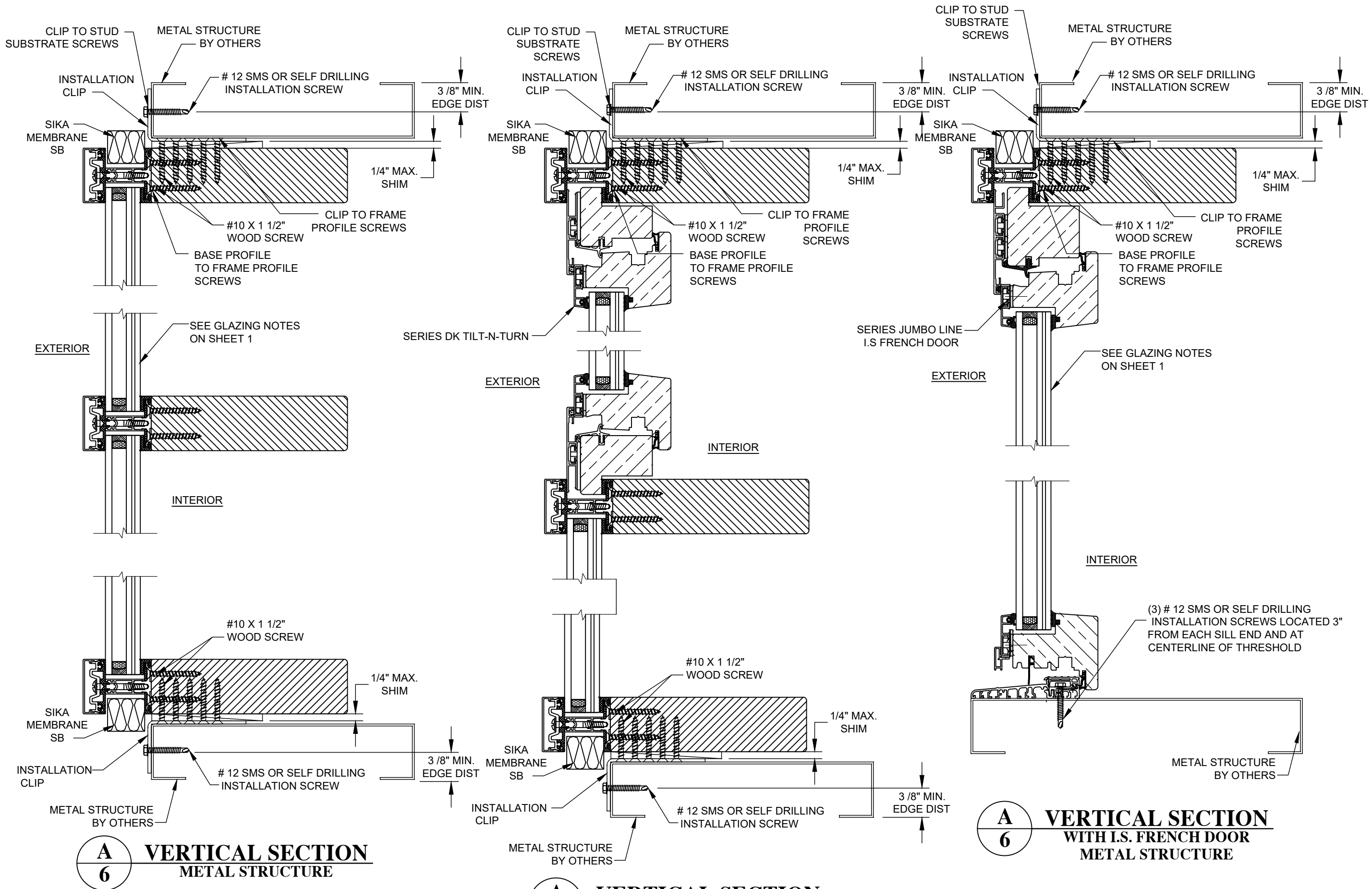
NOTE:
INTERIOR AND EXTERIOR FINISHES BY
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UNILUX GMBH NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY	TITLE: SERIES FINELINE CURTAIN WALL VERTICAL INSTALLATION - CONCRETE	DRAWN BY: JRM	DATE: 08/03/14	REV:	SHEET: 5	OF 14
		SCALE: N.T.S.	DRAWING NO: NL_0027	REV:		
				DESCRIPTION	DATE	BY
				UPDATE TO 7TH ED. (2020) FBC	8/30/20	RJA
				UPDATE TO 6TH ED. (2017) FBC	9/30/17	RJA

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**A/6 VERTICAL SECTION
METAL STRUCTURE**

**NOTE:
INTERIOR AND EXTERIOR FINISHES BY
OTHERS NOT SHOWN FOR CLARITY**

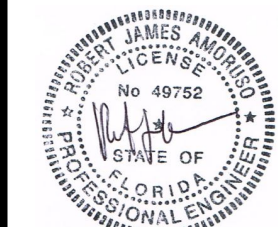
**A/6 VERTICAL SECTION
WITH TILT-N-TURN
METAL STRUCTURE**

**A/6 VERTICAL SECTION
WITH I.S. FRENCH DOOR
METAL STRUCTURE**

		RJA	RJA	BY
		8/30/20	9/30/17	DATE
	UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION
	B	A	REV	

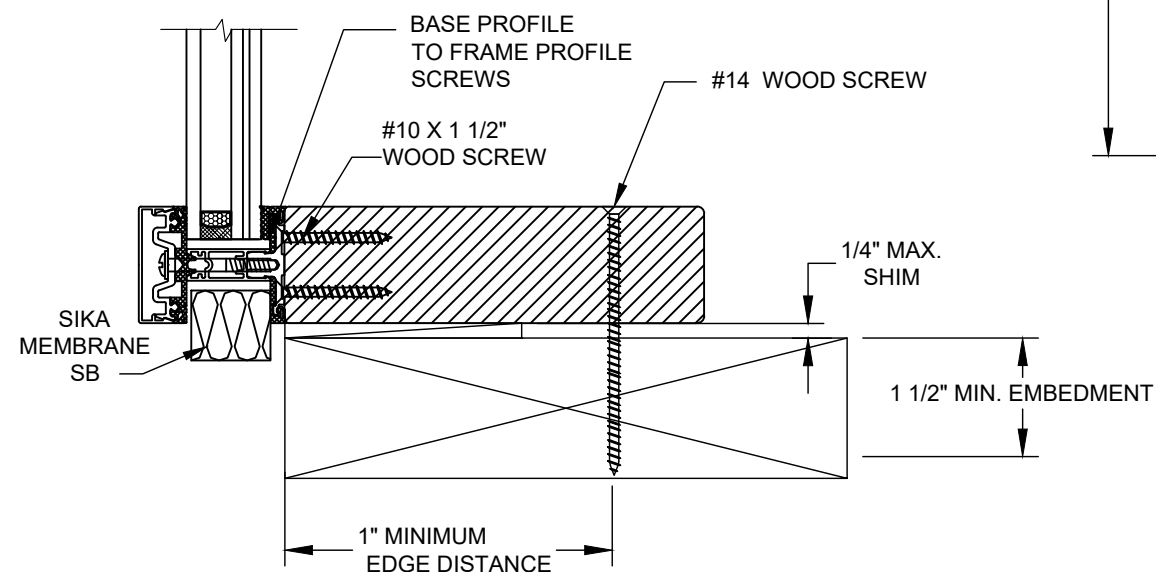
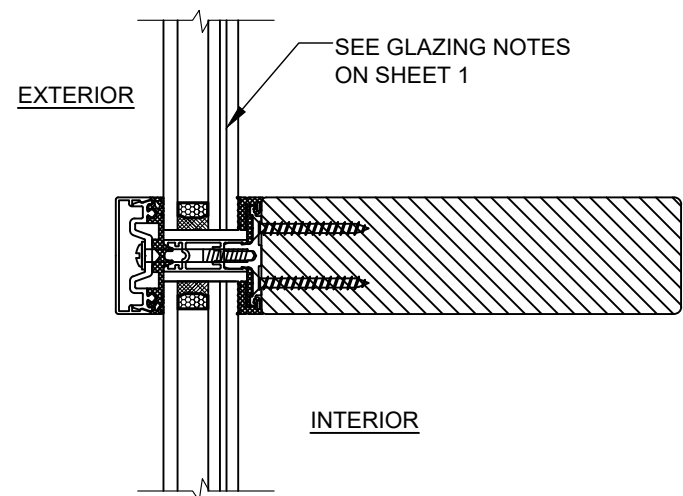
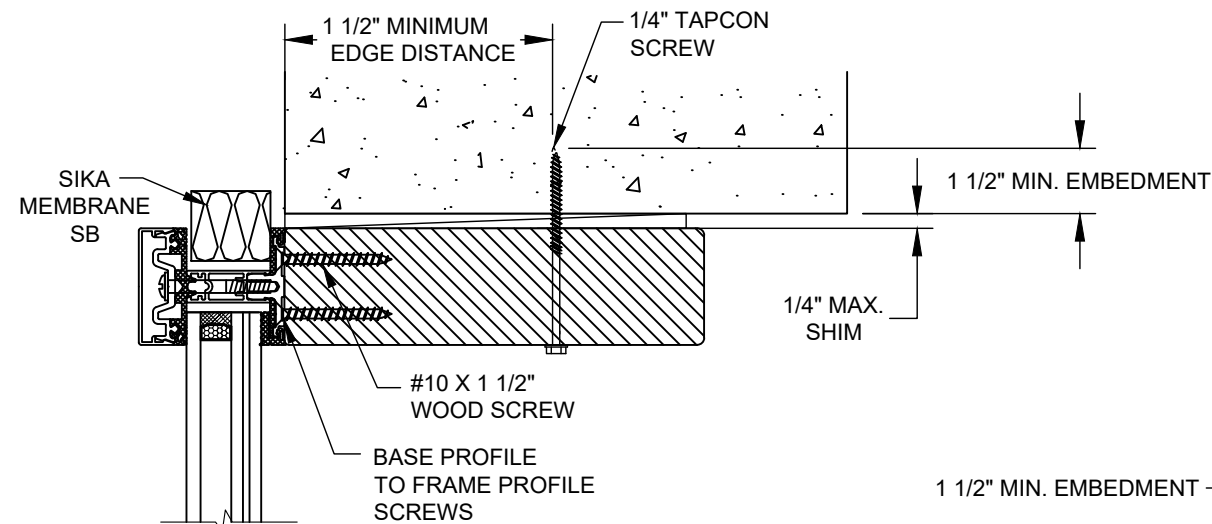
UNILUX GMBH		DATE:	08/03/14	SHEET:	6 OF 14
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY		DRAWN BY:	JRM	SCALE:	N.T.S.
TITLE:				REV:	B
SERIES FINELINE CURTAIN WALL					
VERTICAL INSTALLATION-METAL STRUCTURE					

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



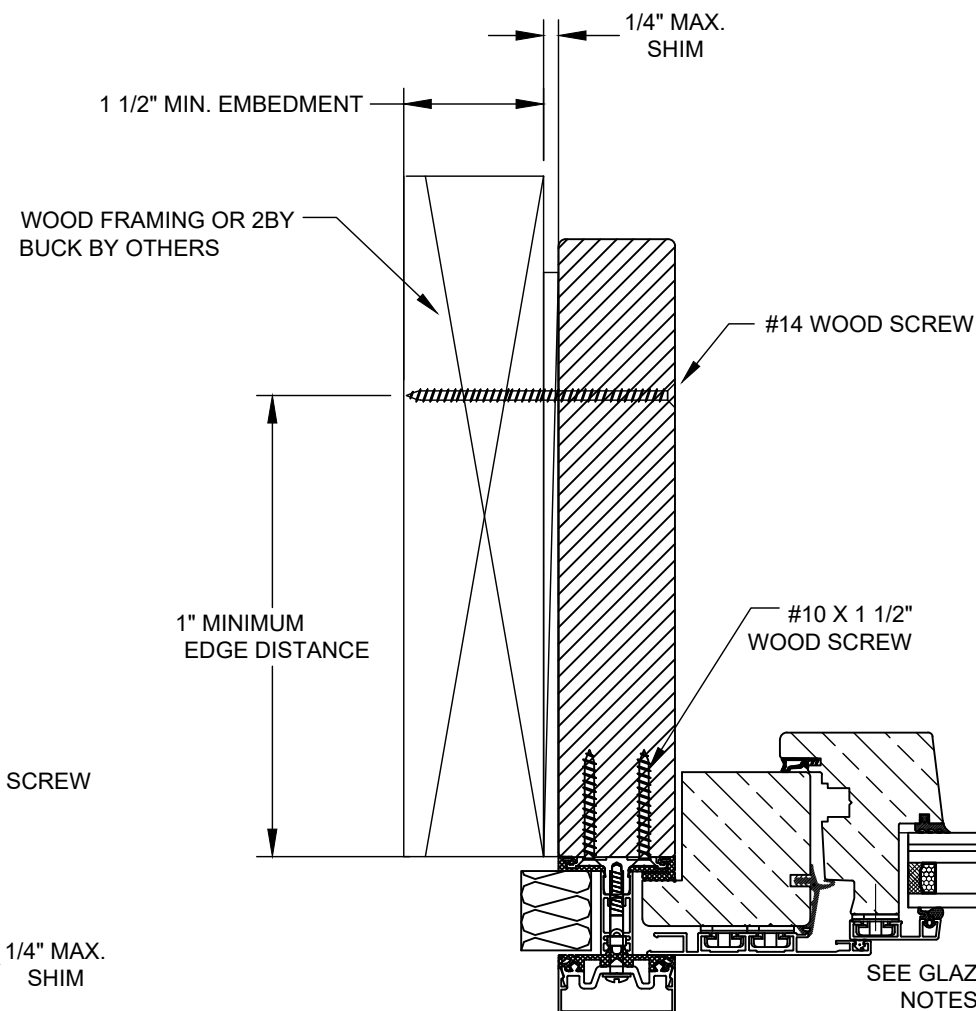
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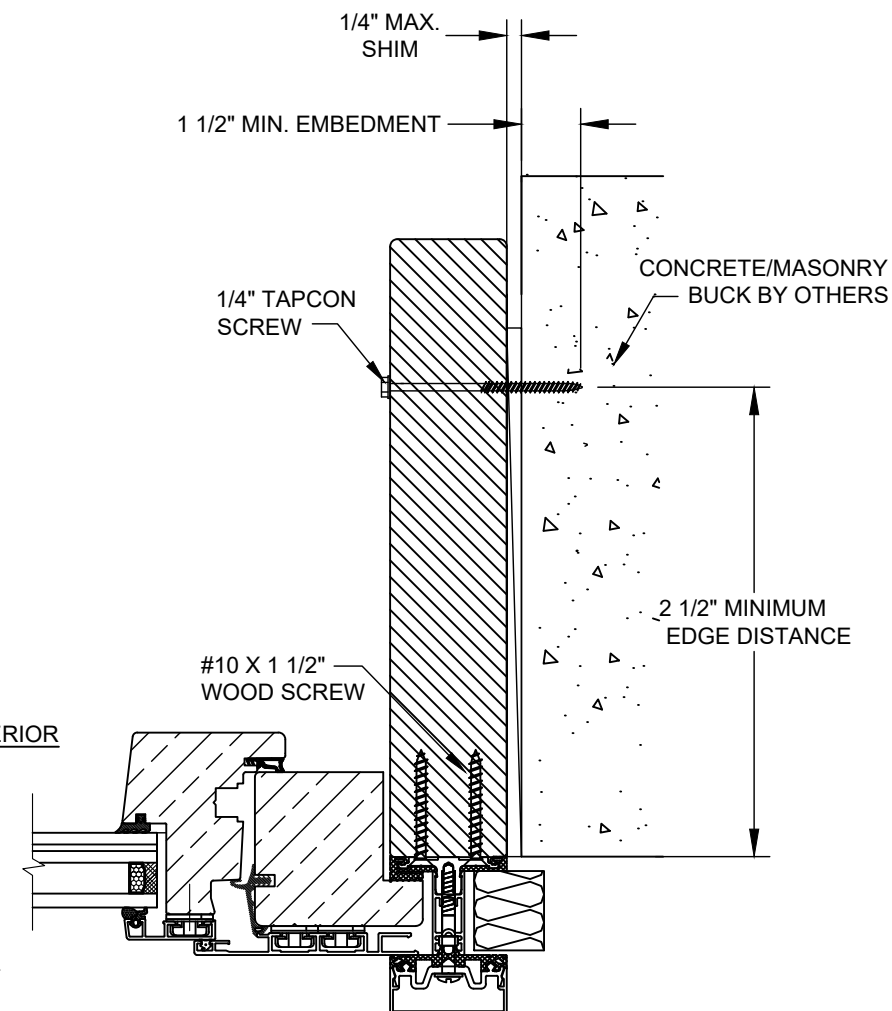


A
7 **VERTICAL SECTION**
CONCRETE FRAME SUBSTRATE SHOWN TOP
WOOD FRAME SUBSTRATE SHOWN BOTTOM

NOTE:
INTERIOR AND EXTERIOR FINISHES BY
OTHERS NOT SHOWN FOR CLARITY



B
7 **HORIZONTAL SECTION**
WOOD AND MASONRY/CONCRETE
SUBSTRATES SHOWN

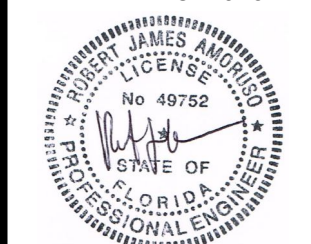


- NOTES:
- 1) VERTICAL SECTIONS ABOVE AT WINDOW SECTION
 - 2) TILT-N-TURN VERTICAL SECTION HEAD AND SILL AND FRENCH DOOR VERTICAL SECTION HEAD INSTALLED SAME AS ABOVE
 - 3) FRENCH DOOR VERTICAL SECTION SILL INSTALLED AS SHOWN IN SECTIONS A/4 & A/5.

		RJA	RJA	BY
		8/30/20	9/30/17	DATE
	UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION
	B	A	REV	

UNILUX GMBH				
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY				
SERIES FINELINE CURTAIN WALL				
VERTICAL/HORIZ. INSTALLATION - MASONRY/CONCRETE/WOOD				
DRAWN BY:	JRM	DATE:	08/03/14	
SCALE:	N.T.S.	DRAWING NO:	NL_0027	
REV:	B	SHEET:	7 OF 14	

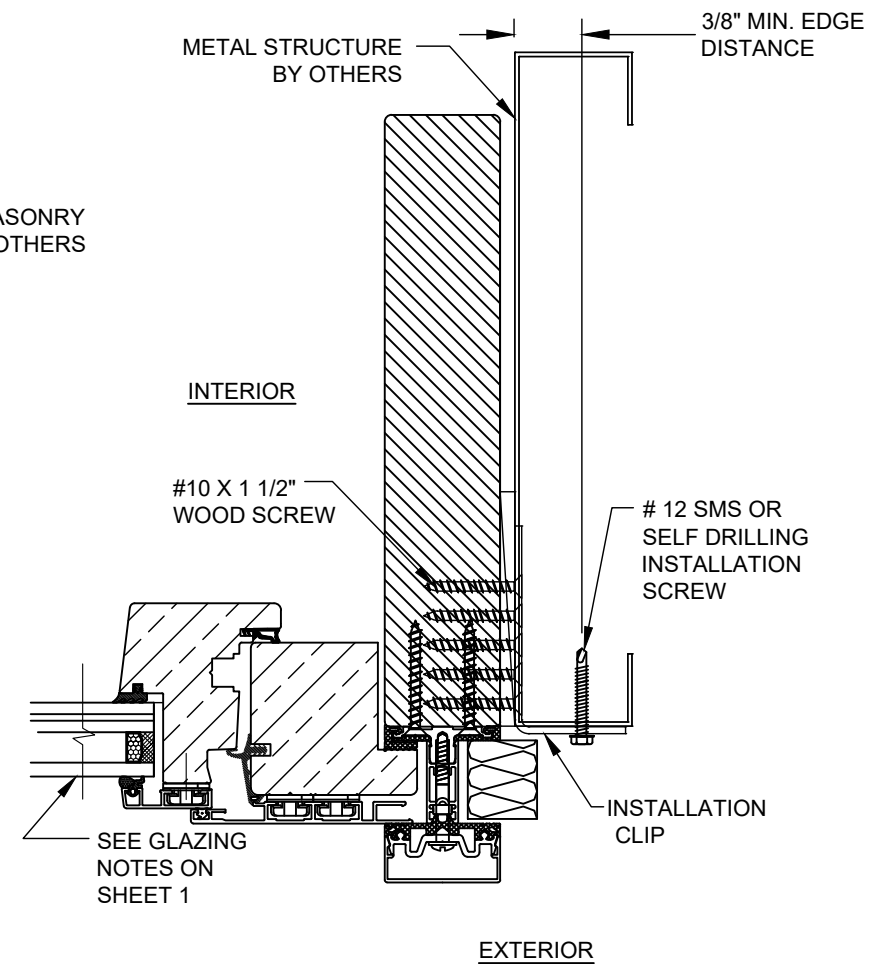
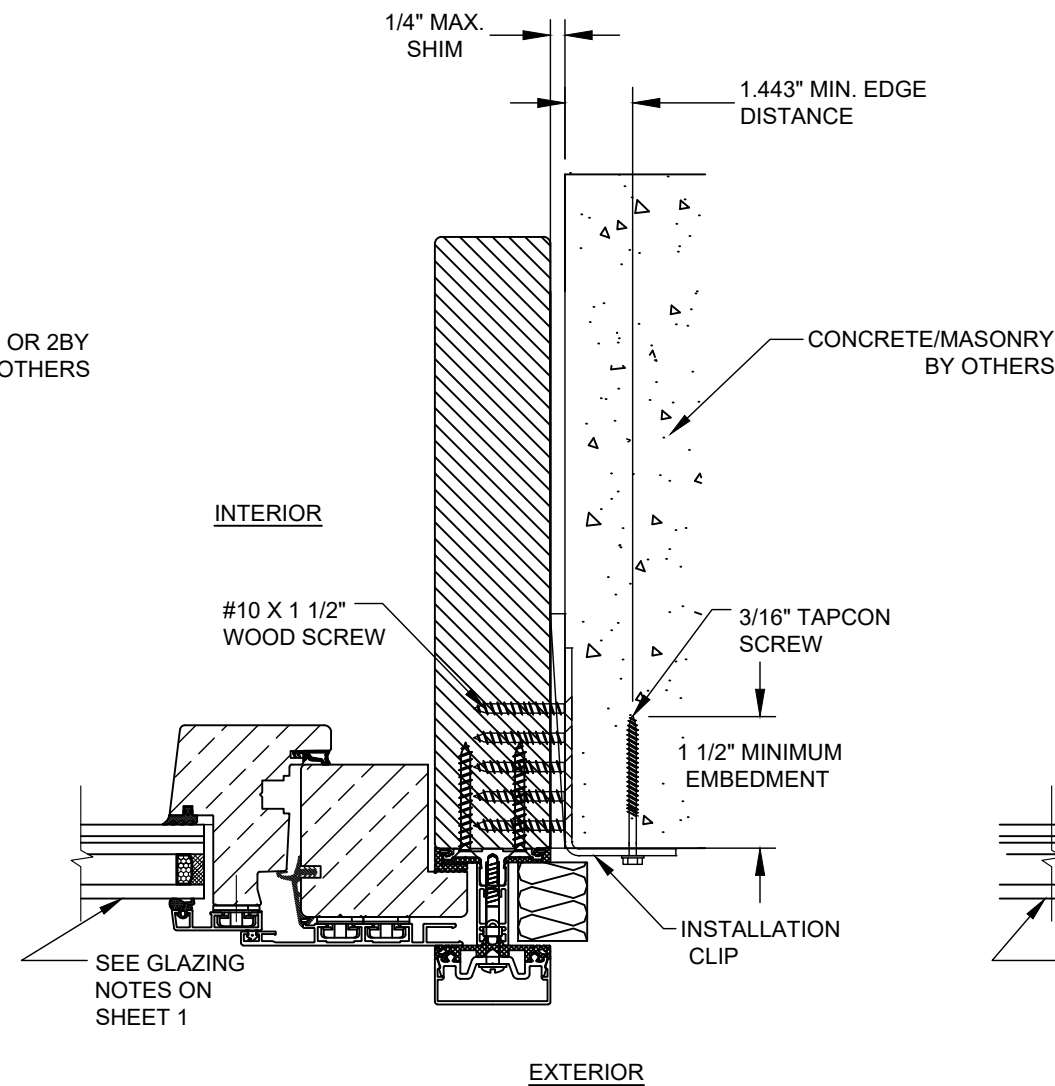
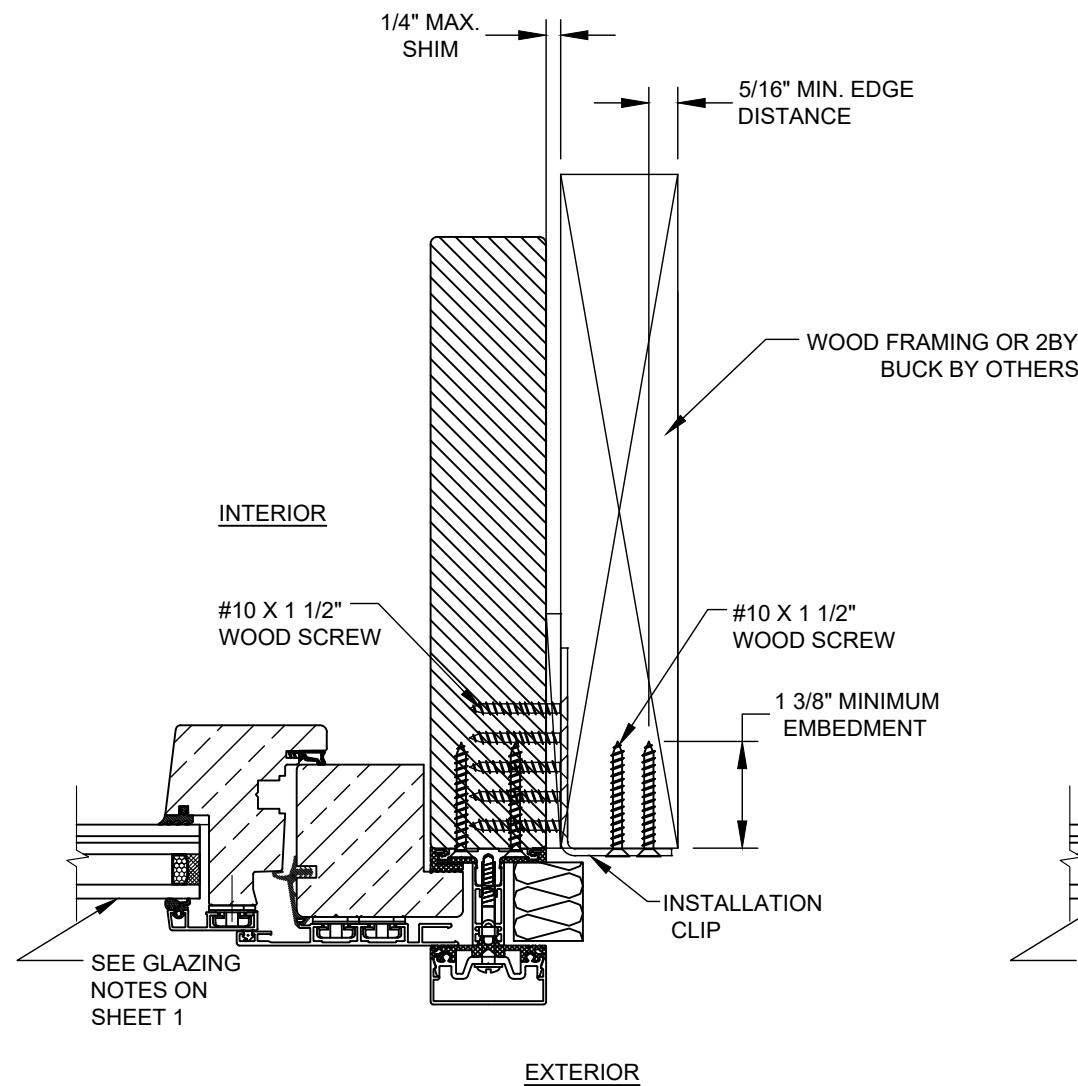
ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed
by Robert J
Amoruso

Date: 2020.08.30
17:21:17 -04'00'

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



B
8

HORIZONTAL SECTION WOOD FRAME SUBSTRATE

B
8

HORIZONTAL SECTION MASONRY/CONCRETE SUBSTRATE

B
8

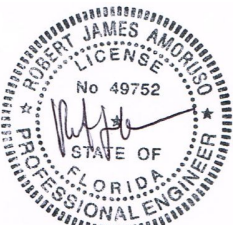
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NOTE:
INTERIOR AND EXTERIOR FINISHES BY
OTHERS NOT SHOWN FOR CLARITY

REV	DATE	DESCRIPTION
BY		
DATE	8/30/20	RJA
DESCRIPTION	UPDATE TO 7TH ED. (2020) FBC	
REV		
DATE	9/30/17	RJA
DESCRIPTION	UPDATE TO 6TH ED. (2017) FBC	

UNILUX GMBH		NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY	
SERIES FINELINE CURTAIN WALL		HORIZONTAL INSTALLATION	
DRAWN BY:	JRM	DATE:	08/03/14
SCALE:	N.T.S.	DRAWING NO:	NL_0027
REV:	B	SHEET:	8 OF 14

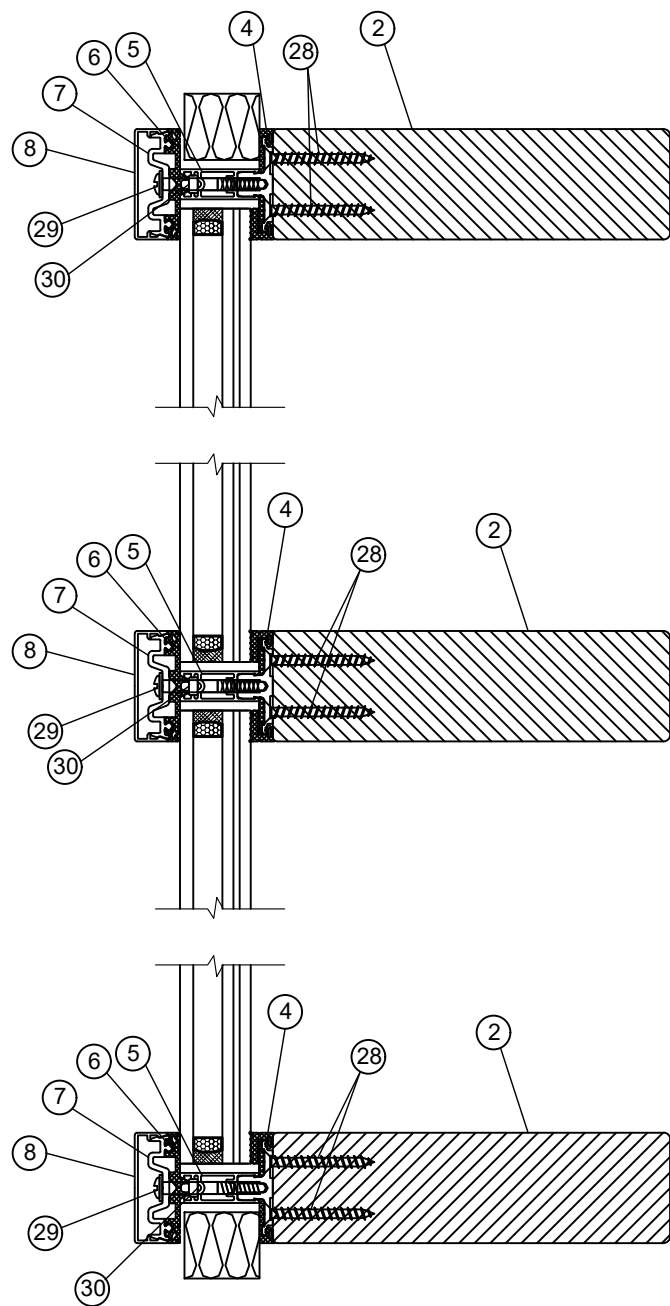
ROBERT J. AMORUSO
FL. P.E. NO. 49752



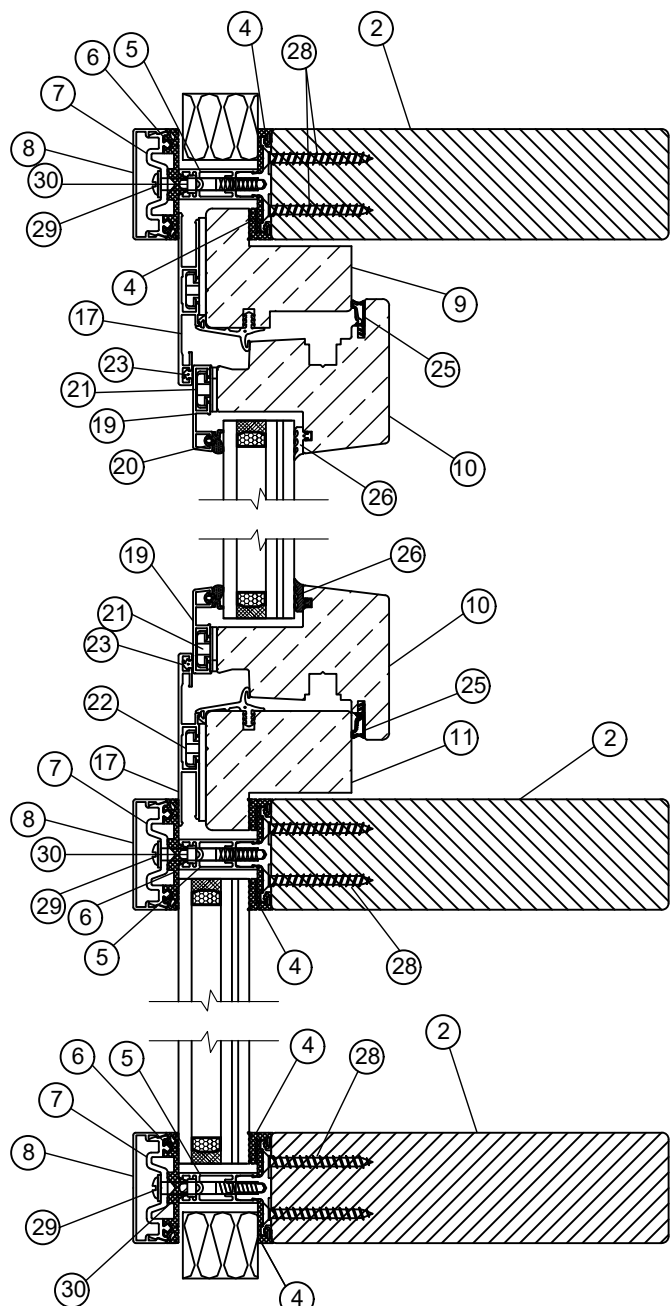
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Amoruso

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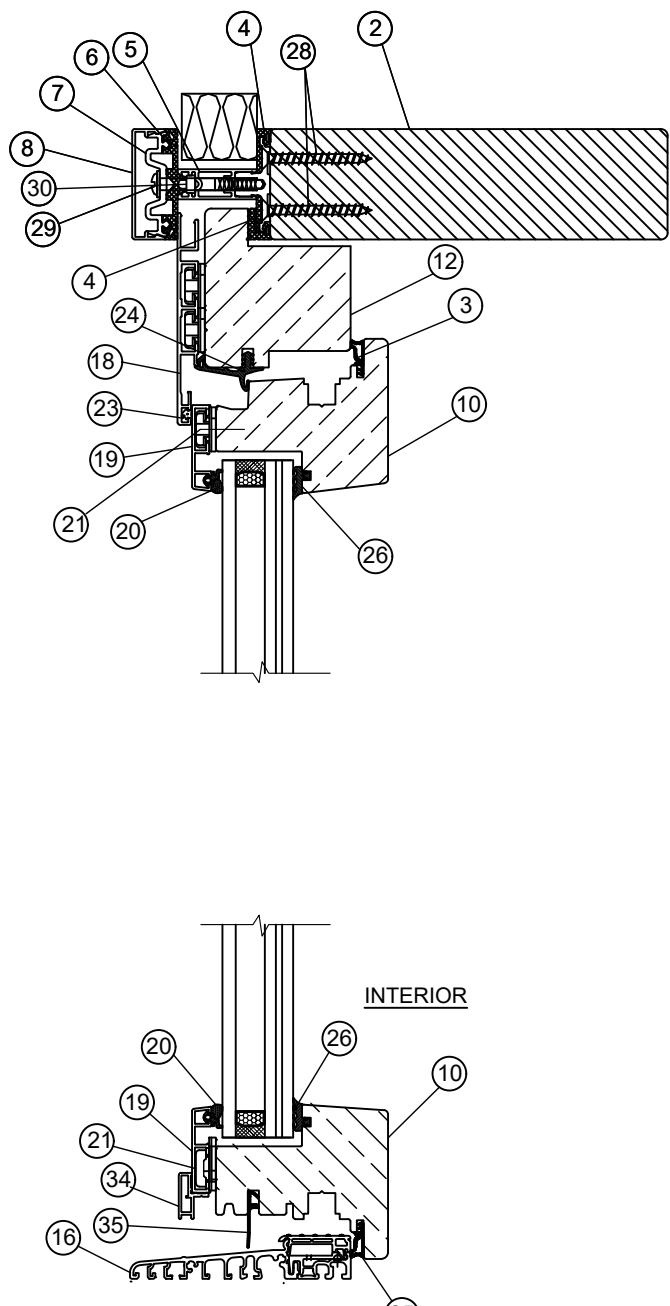
12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
robert.amoruso@



VERTICAL SECTION
FINELINE CURTAIN WALL
FOR PARTS IDENTIFICATION
SEE B.O.M. ON SHEET 11



VERTICAL SECTIONS
DK TILT-N-TURN
FOR PARTS IDENTIFICATION
SEE B.O.M. ON SHEET 11



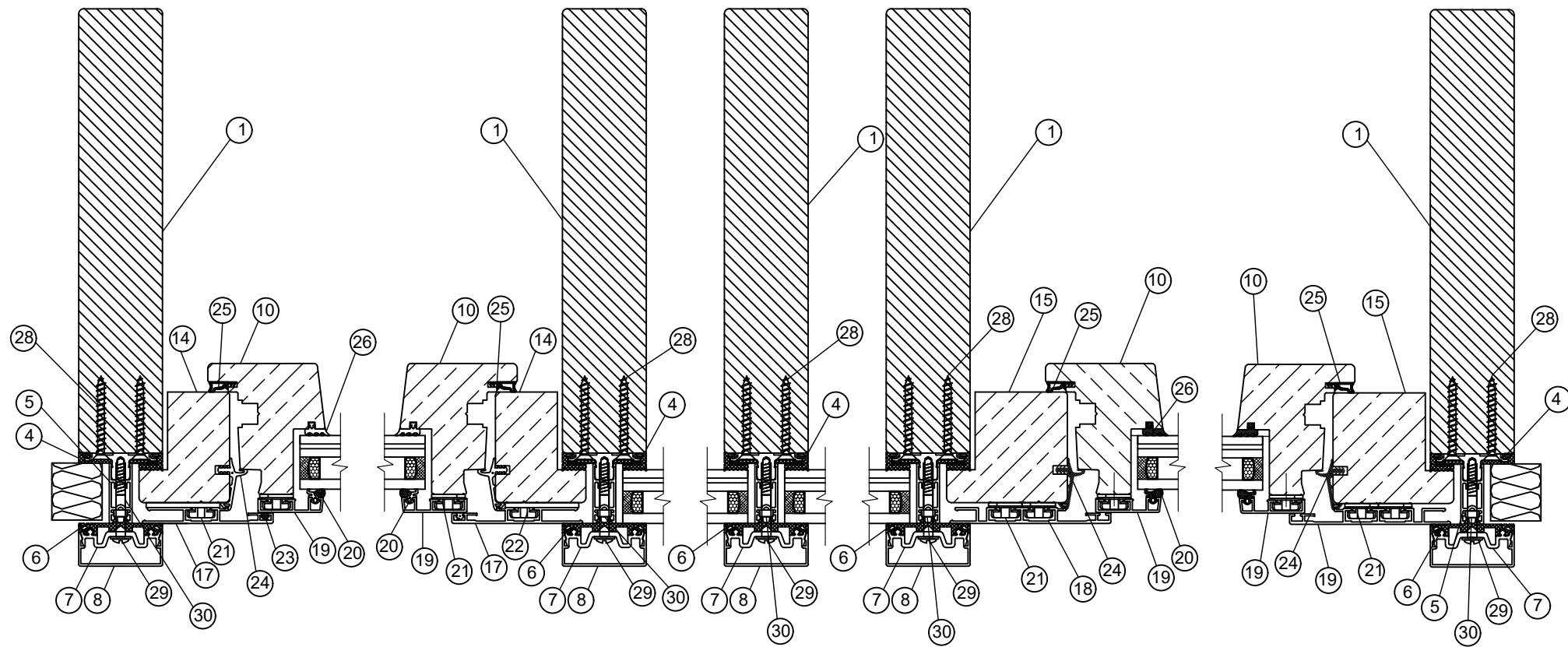
VERTICAL SECTIONS
JUMBO LINE I.S. DOOR
FOR PARTS IDENTIFICATION
SEE B.O.M. ON SHEET 11

UNILUX GMBH		NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY		DATE: 08/03/14		DRAWING NO: NL_0027		SHEET: 9 OF 14	
SERIES FINELINE CURTAIN WALL		VERTICAL CROSS SECTIONS		JRM		N.T.S.		B	
UPDATE TO 7TH ED. (2020) FBC		UPDATE TO 6TH ED. (2017) FBC		8/30/20		9/30/17		DATE	
B		A		REV		DESCRIPTION		BY	

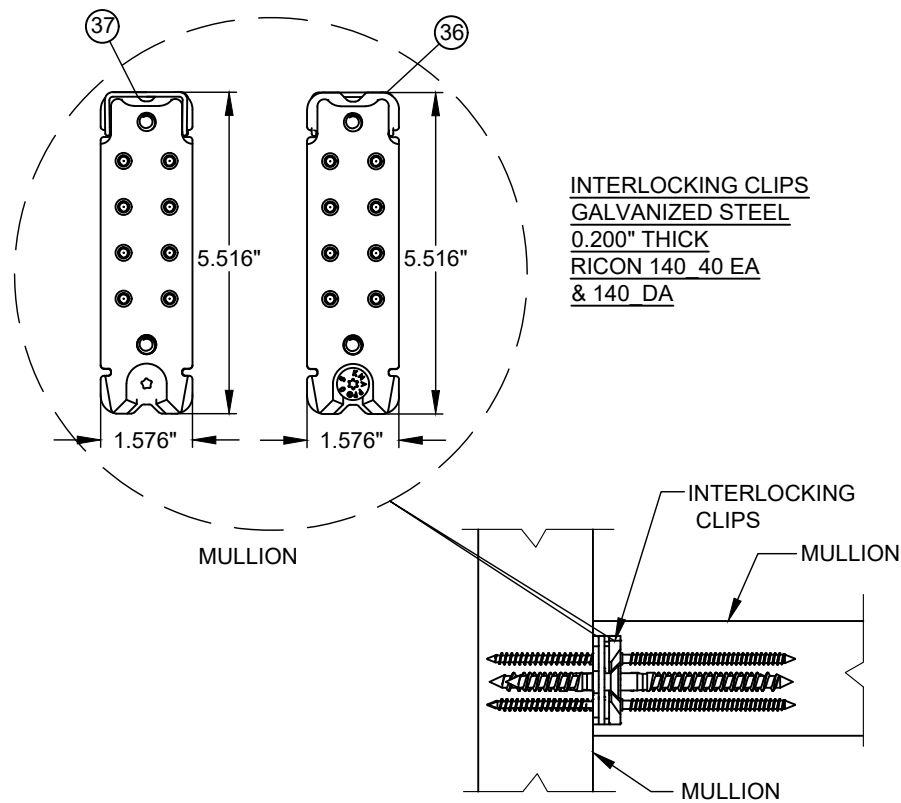
ROBERT J. AMORUSO
FL. P.E. NO. 49752

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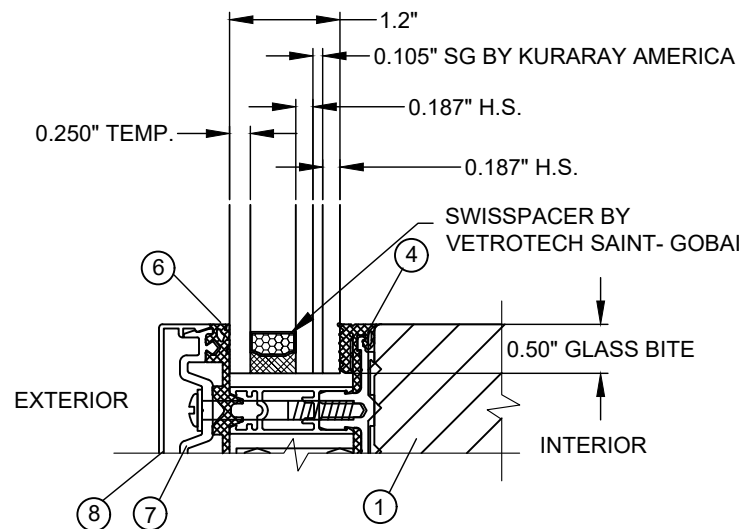
12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
robert.amoruso@



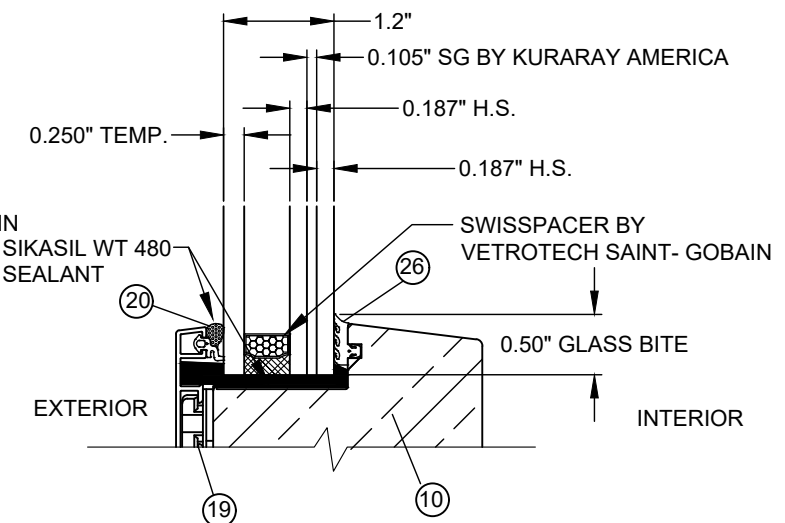
**HORIZONTAL SECTION
FINELINE CURTAIN WALL
FOR PARTS IDENTIFICATION
SEE B.O.M. ON SHEET 11**



**C
10 MULLION DETAIL
VERTICAL TO HORIZONTAL
MULLION CONNECTION TYPICAL**



GLAZING DETAIL 1

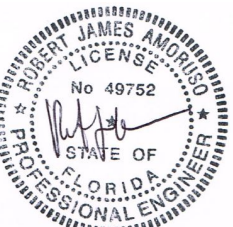


GLAZING DETAIL 2

REV	DATE	DESCRIPTION	BY
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A	9/30/17	UPDATE TO 6TH ED. (2017) FBC	RJA

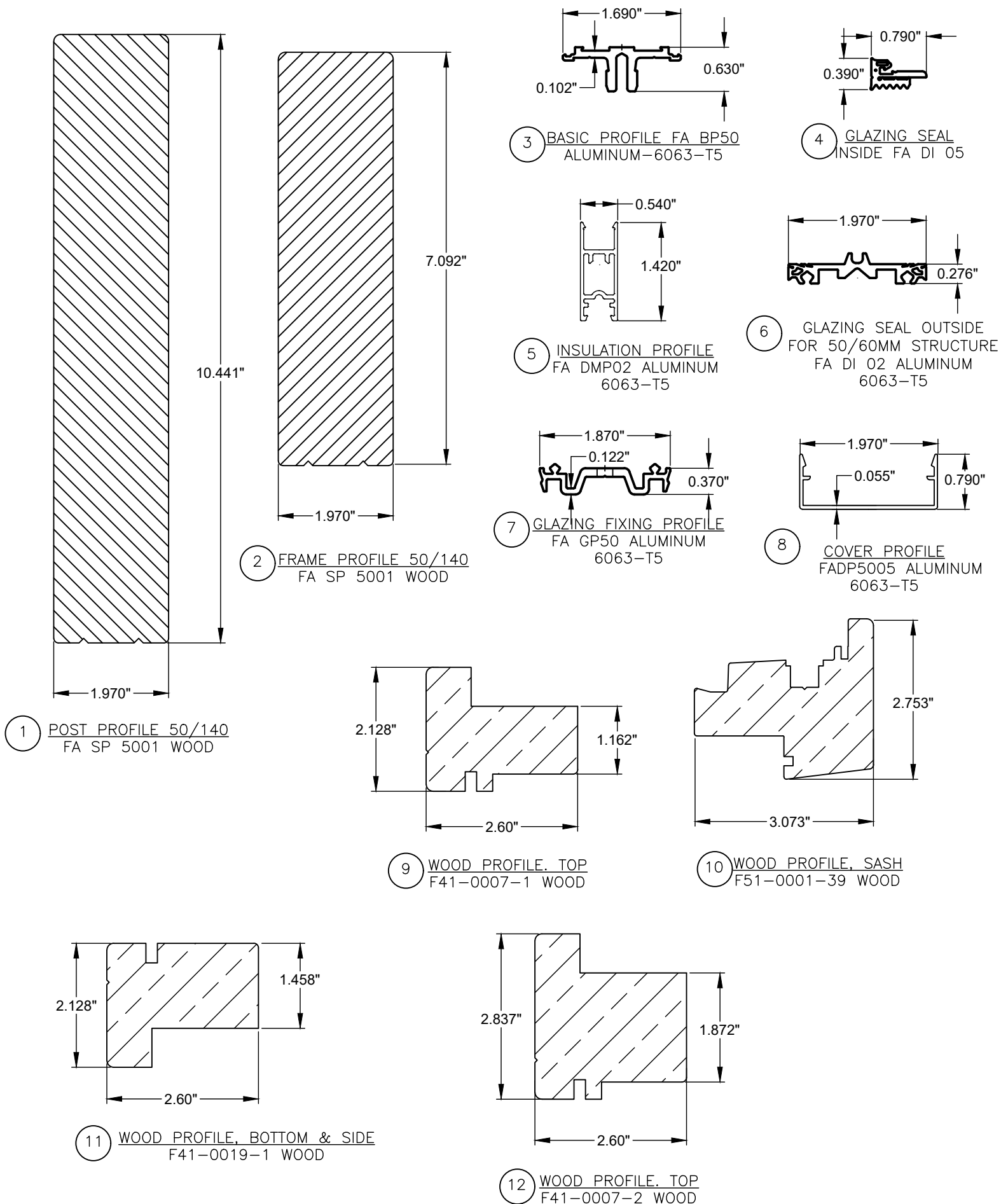
UNILUX GMBH NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY			
SERIES FINELINE CURTAIN WALL HORIZONTAL CROSS SECTION & GLAZING			
DRAWN BY: JRM	DATE: 08/03/14	DRAWING NO: NL_0027	SHEET: 10 OF 14
SCALE: N.T.S.	REV: B		

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



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by Robert J
Amoruso
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17:22:05 -04'00'

12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
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QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	FA SP 5001	POST PROFILE, WOOD G .50	UNILUX
2	FA SP 5001	FRAME PROFILE, WOOD G .50	UNILUX
3	FA BP50	BASE PROFILE, ALUMINUM	UNILUX
4	FA DI 05	INTERIOR GLAZING SEAL	UNILUX
5	FA DMP02	INSULATION PROFILE, 6063-T5 ALUMINUM	UNILUX
6	FA DI 02	GLAZING SEAL STRUCTURE, ALUMINUM 6063-T5	UNILUX
7	FA GP50	GLAZING FIXING PROFILE, ALUMINUM 6063 T-5	UNILUX
8	FA DP5005	COVER PROFILE. ALUMINUM 6063-T-5	UNILUX
9	F41-007-1	FRAME TOP, WOOD G .50	UNILUX
10	F51-001-39	FRAME SASH, WOOD G .50	UNILUX
11	F41-0019-1	FRAME BOTTOM WOOD G .50	UNILUX
12	F41-007-2	FRAME TOP, WOOD G .50	UNILUX
13	F51-0095-39	FRAME BOTTOM, WOOD G .50	UNILUX
14	F41-006-1	FRAME SIDE, WOOD G .50	UNILUX
15	F41-006-2	FRAME SIDE, WOOD G .50	UNILUX
16	E41-0050-1	FRAME, SILL ASSEMBLY ALUMINUM	UNILUX
17	E51-0002	CLADDING, 6063-T5 ALUMINUM	UNILUX
18	E51-0075	CLADDING, 6063-T5 ALUMINUM	UNILUX
19	E55-0001	CLADDING, 6063-T5 ALUMINUM	UNILUX
20	E41-1029	GLAZING GASKET, RUBBER EPDM, 80 DUROMETER	UNILUX
21	E41-0114	CLADDING FASTENER, PLASTIC GF 30	UNILUX
22	E41-0116	CLADDING FASTENER, PLASTIC GF 30	UNILUX
23	E41-1003	FRAME GASKET, RUBBER EPDM, 80 DUROMETER	UNILUX
24	E51-1012	FRAME GASKET, RUBBER EPDM, 70 DUROMETER	UNILUX
25	E51-1006	SASH GASKET, RUBBER EPDM, 60 DUROMETER	UNILUX
26	E41-1002	SASH GASKET, RUBBER EPDM, 60 DUROMETER	UNILUX
27	07116	INSTALLATION CLIP, STEEL	SIMPSON
28	FA-SR01	5.5MM X 50MM FHD SMS, BASE PROFILE	PURCHASE
29	FA-SR06	5.5MM X 41MM PHD SMS, CLAMPING PROFILE	PURCHASE
30	FA-SR03	5.5MM X 31MM THD SMS, INSULATING PROFILE	PURCHASE
31	140/40	CONNECTOR, ONE SIDED	RICON
32	140/40-DA48	CONNECTOR, TWO SIDED	RICON
33	552	SIKA FLEX, SEALANT	SIKA
34	E51-0081-1	PROFILE DTS, ALUMINUM 6063-T5	UNILUX
35	E51-1045	BOTTOM SASH SEAL	UNILUX
36	RICON 140-EA	MULLION CONNECTION CLIP, STEEL	UNILUX
37	RICON 140-DA	MULLION CONNECTION CLIP, STEEL	UNILUX

UNILUX GMBH

NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY

TITLE: SERIES FINELINE CURTAIN WALL
B.O.M. & COMPONENTS

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

DATE: 08/03/14
DRAWING NO: NL_0027
SHEET: 11 OF 14

RJA
8/30/20
UPDATE TO 7TH
ED. (2020) FBC

RJA
9/30/17
UPDATE TO 6TH
ED. (2017) FBC

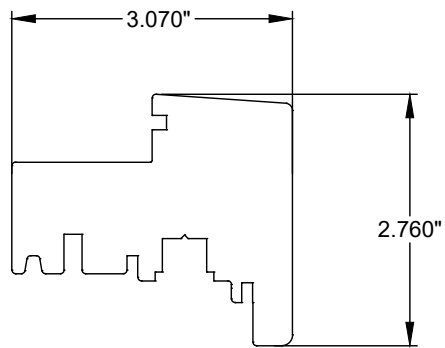
BY
DATE

REV

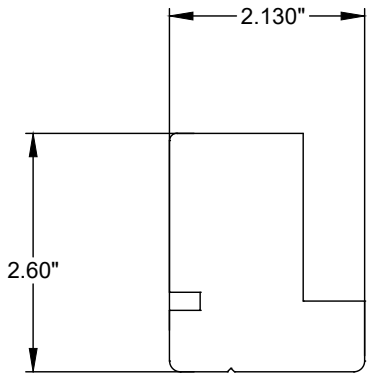
ROBERT J. AMORUSO
FL. P.E. NO. 49752

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by Robert J
Amoruso
Date: 2020.08.30
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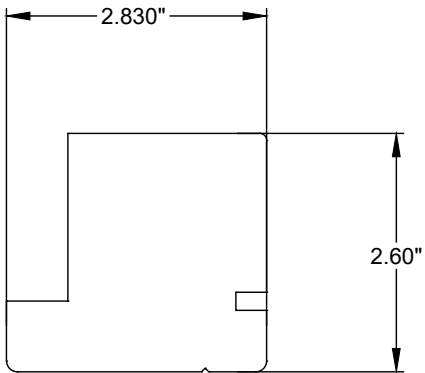
12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
robert.amoruso@



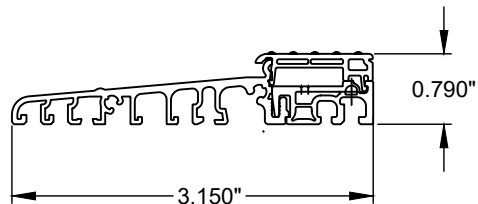
13 WOOD PROFILE, BOTTOM
F51-0095-39 WOOD



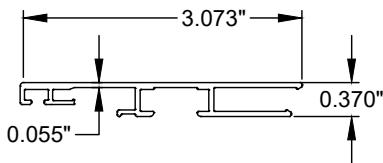
14 WOOD PROFILE, SIDE
F41-0006-1 WOOD



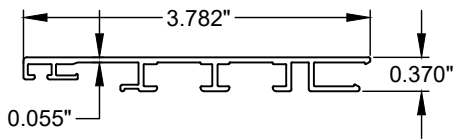
15 WOOD PROFILE, SIDE
F41-0006-2 WOOD



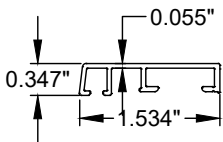
16 FRAME SILL ASSEMBLY
E41-0050-1 ALUMINUM



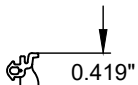
17 CLADDING, E51-0002
ALUMINUM 6063-T5



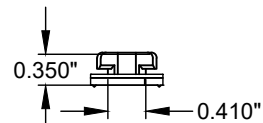
18 CLADDING, E51-0075
ALUMINUM 6063-T5



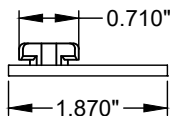
19 CLADDING, E55-0001
ALUMINUM 6063-T5



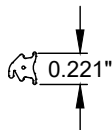
20 GLAZING GASKET E41-1029
EPDM DUROMETER 80



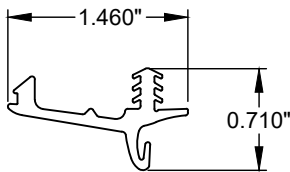
21 CLADDING FASTENER
E41-0114



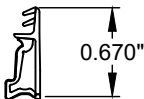
22 CLADDING FASTENER
E41-0116



23 FRAME GASKET E41-1029
EPDM DUROMETER 80



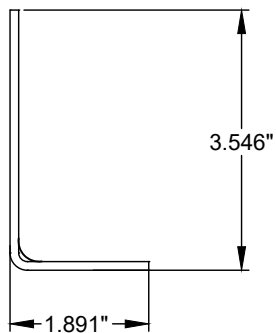
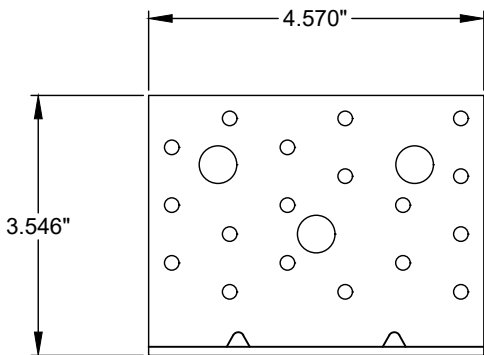
24 FRAME GASKET EPDM
70 DUR. E51-1012



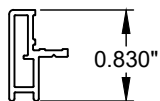
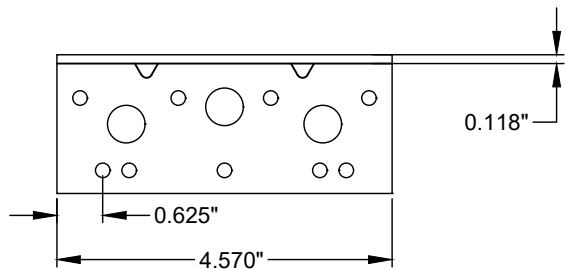
25 SASH GASKET EPDM
60 DUR. E51-1006



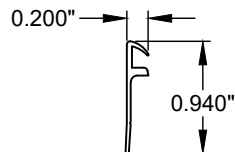
26 GLAZING GASKET EPDM
60 DUR. E41-1002



27 INSTALLATION CLIP
GALVANIZED STEEL #07116
0.125\" THICK SIMPSON TIE DOWN



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

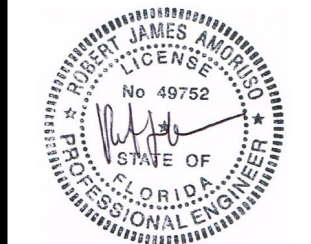


35 BOTTOM SASH SEAL
E51-1045

REV	DESCRIPTION	DATE	BY
B	UPDATE TO 7TH ED. (2020) FBC	8/30/20	RJ/
A	UPDATE TO 6TH ED. (2017) FBC	9/30/17	RJ/

UNILUX GMBH	SERIES FINELINE CURTAIN WALL COMPONENTS			DRAWN BY: JRM	DATE: 08/03/14
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY	TITLE:			SCALE: N.T.S.	DRAWING NO: NL_0027
				REV: B	SHEET: 12 OF 14

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FL. P.E. NO. 49752

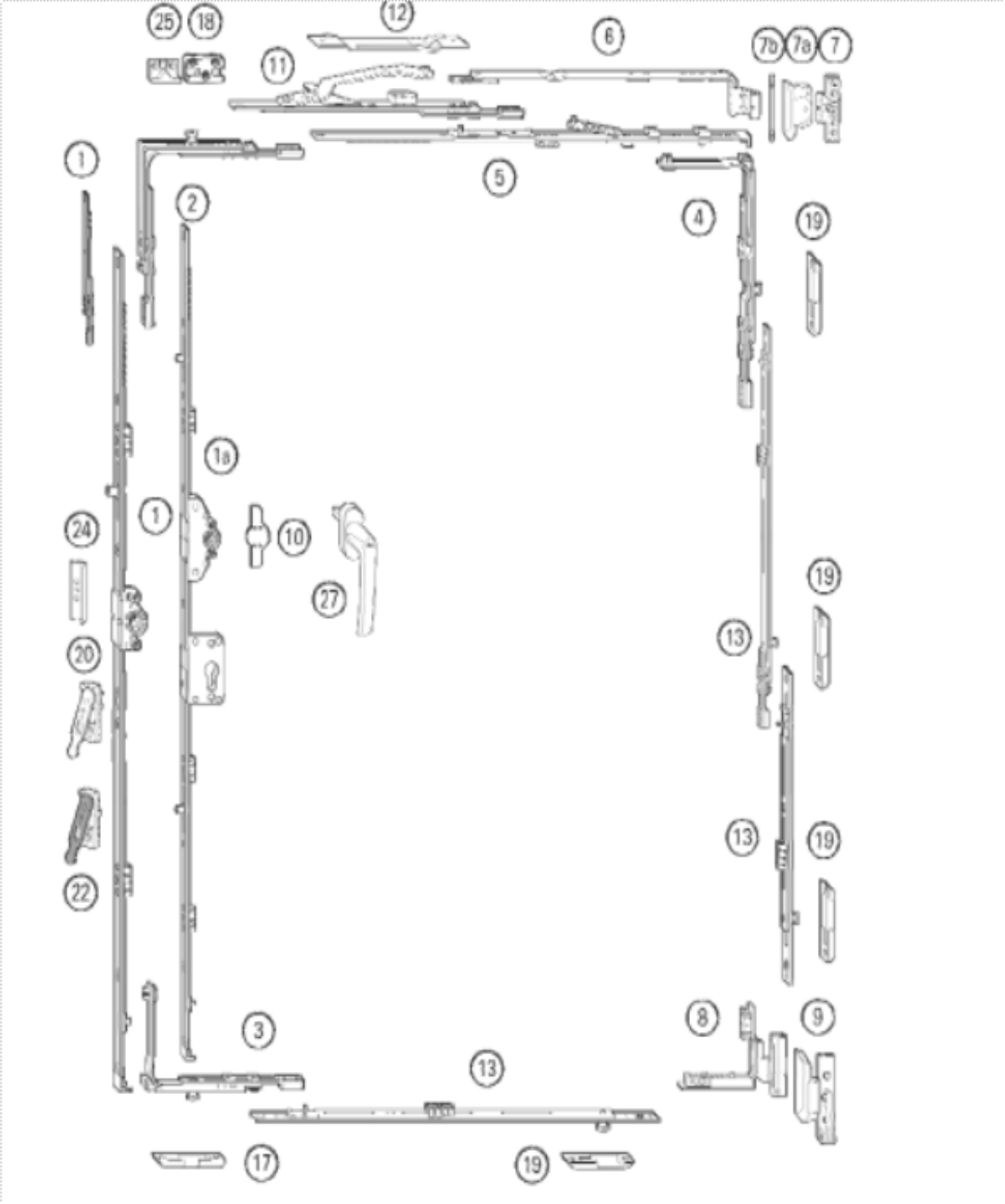


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by Robert J
Amoruso

Date: 2020.08.30
17:22:31 -04'00'

12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
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QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	259853/308267	TILT/TURN LOCK GEAR	ROTO
2	260272	CORNER DRIVE HEAD FRONT	ROTO
3	260288	CORNER DRIVE BOTTOM FRONT	ROTO
4	260294	STAY CORNER DRIVE	ROTO
5	287528	SASH STAY GUIDE	ROTO
6	262377	STAY ARM	ROTO
7A	355618	MOULDING COVER AT HINGE	ROTO
7B	227354	HINGE PIN	ROTO
8	262388	REBATE CORNER HINGE	ROTO
9	355620	CORNER PIVOT RESET	ROTO
10	264601	DRILL PROTECTION	ROTO
11	315999	SCISSOR STAY, SASH PART	UNILUX
12	330595	SCISSOR STAY, FRAME PART	UNILUX
13	337711/296853	MULTIPART CENETER LOCK	UNILUX
14	296076/308267	TURN-ONLY LOCK GEAR	UNILUX
15	257138	SASH STAY GUIDE	UNILUX
16	337710	CENTER LOCK, HORIZONTAL	UNILUX
17	355608	STRIKER FOR TILT FUNCTION	UNILUX
18	355611	STRIKER HEAD	UNILUX
19	355610	SAFETY STRIKER	UNILUX
20	260538	SASH LIFTER, SASH PART	UNILUX
21	257600	SASH LIFTER, FRAME PART	UNILUX
22	284220	SPECIAL SASH LIFTER	UNILUX
23	330081	MAGNETIC CATCH, FRAME	UNILUX
24	329981	MAGNETIC CATCH	UNILUX
25	260527	SLOT-VENT	UNILUX
26	350403	REST BLOCK	UNILUX
27	GFORA	HANDLE	UNILUX

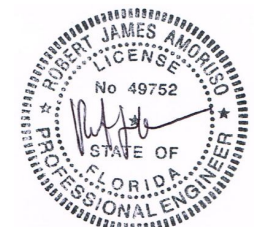


DK HARDWARE

		RJ/	RJ/	BY
		8/30/20	9/30/17	DATE
	UPDATE TO 7TH ED. (2020) FBC	UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION	
	B	A	REV	

UNILUX GMBH		DATE:	08/03/14	DRAWING NO:	NL_0027	SHEET: 13 OF 14
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY						
TITLE:		DRAWN BY: JRM		SCALE: N.T.S.		REV: B
SERIES FINELINE CURTAIN WALL		TILT-N-TURN HARDWARE DETAILS				

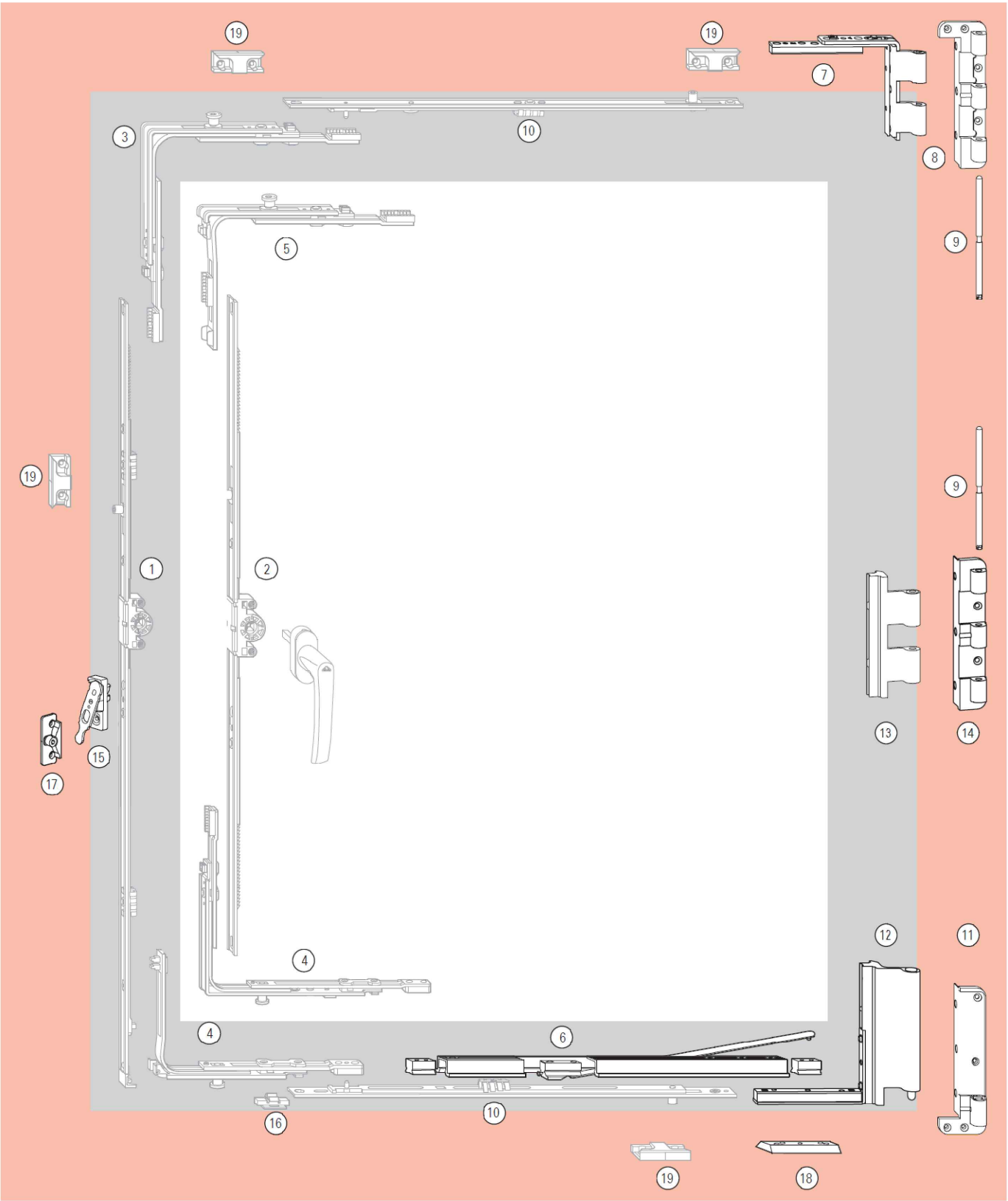
ROBERT J. AMORUSO
FL. P.E. NO. 49752



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Amoruso
Date: 2020.08.30
17:22:45 -04'00'

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

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

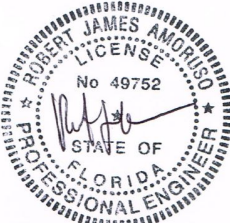


JUMBO LINE HARDWARE

		RJ	RJ	BY
		8/30/20	9/30/17	DATE
	UPDATE TO 7TH ED. (2020) FBC	UPDATE TO 6TH ED. (2017) FBC	DESCRIPTION	REV
	B	A	REV	

UNILUX GMBH		DATE: 08/03/14		DRAWING NO: NL_0027		SHEET: 14 OF 14	
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY		JRM		N.T.S.		B	
SERIES FINELINE CURTAIN WALL							
JUMBO LINE DOOR HARDWARE DETAILS							

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



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by Robert J
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UNDERHILL RD
NO. 148
ORLANDO, FL 32828
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