

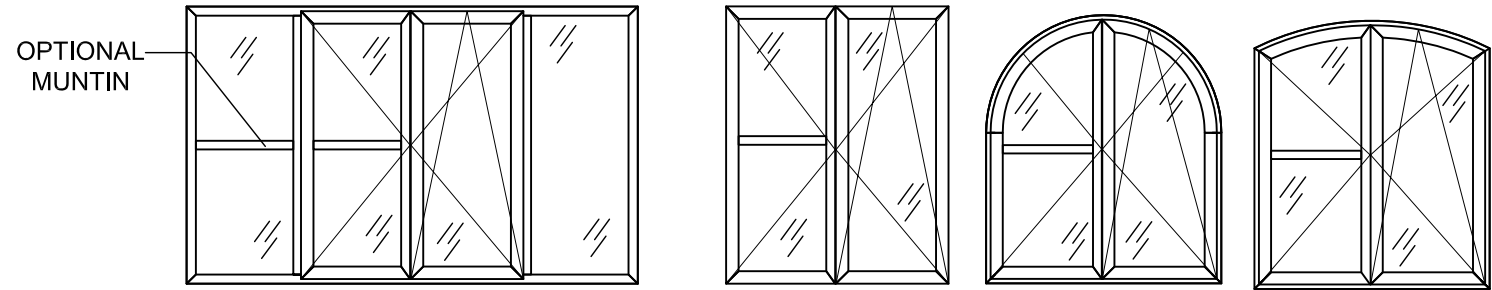
UNILUX GmbH

SERIES "DKZ" ALUMINUM CLAD WOOD TILT & TURN WINDOWS

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 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 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. 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 9 OF 11.
 - 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" STAND FOR THE FOLLOWING:
 - X: OPERABLE



GLASS DAYLIGHT OPENING
33.75" X 43.25" (MUNTIN)
33.75" X 89.75" (WITHOUT MUNTIN)

GLASS DAYLIGHT OPENING
33.75" X 41.25" (ACTIVE MUNTIN)
33.75" X 89.75" (WITHOUT MUNTIN)

OPTIONAL MUNTIN (APPLICABLE TO ALL ELEVATIONS)

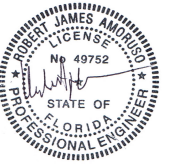
APPROVED ELEVATIONS OXXO, OXX, XXO, XX

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. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER BELOW. SEE ANCHOR LAYOUTS AND NOTES ON SHEET 3 AND 4 FOR ANCHOR QUANTITIES AND REQUIRED SPACING, EMBEDMENT AND EDGE DISTANCES.
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)

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4	---	ANCHOR NOTES AND LAYOUT
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6	---	VERTICAL INSTALLATION DETAILS
7	---	HORIZONTAL INSTALLATION DETAILS
8	---	HORIZONTAL INSTALLATION DETAILS
9	---	B.O.M. CROSS SECTIONS & GLAZING
10	---	COMPONENTS
11	---	HARDWARE DETAIL

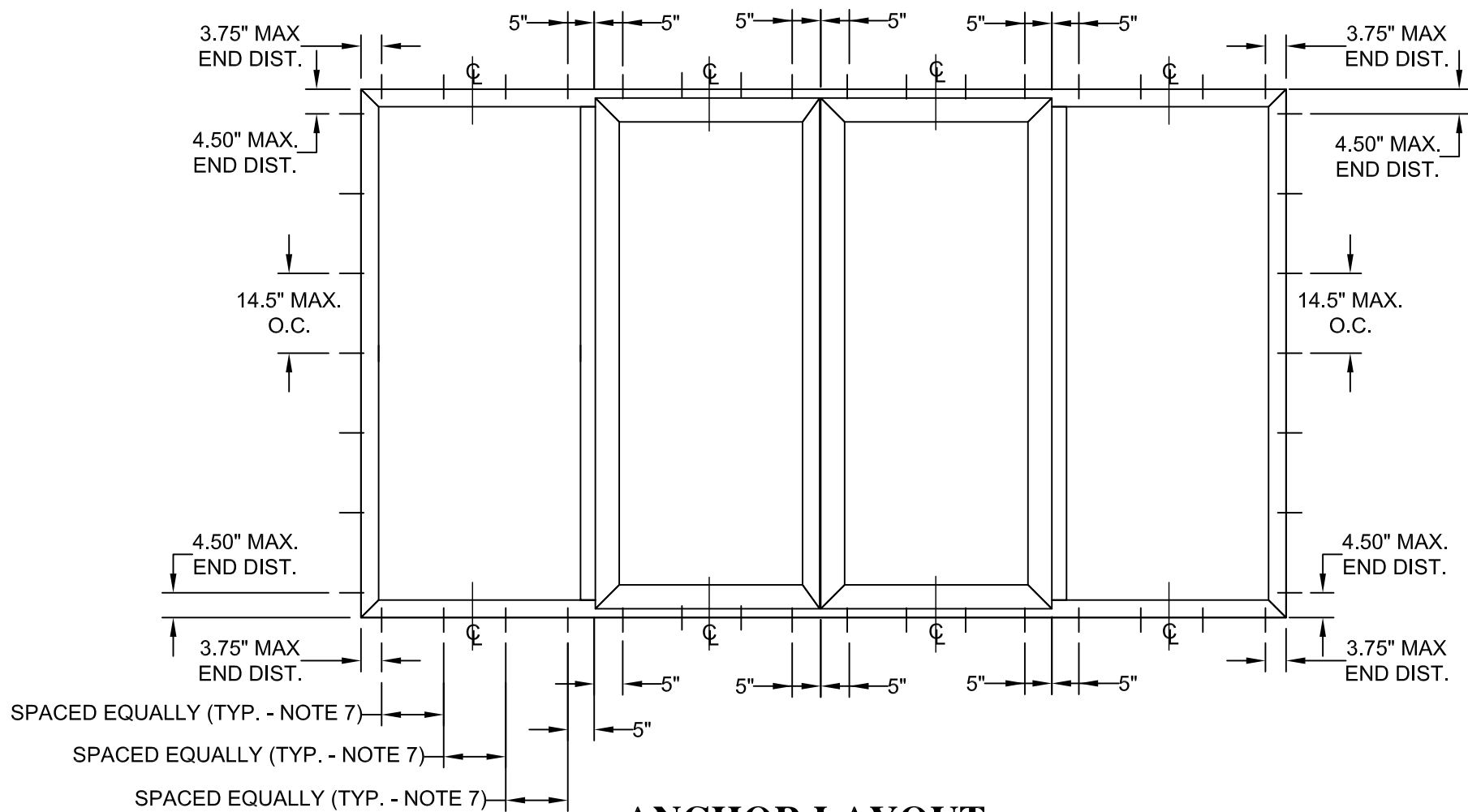
PERFORMANCE RATING (PSF)		
MAX. SIZE TESTED (IN)	MAX. DESIGN PRESSURE (PSF)	IMPACT RATING
168.30" x 96.06" OXXO	+ 60	LARGE MISSILE
84.3" x 96.06" XX		
GLAZING REQUIREMENTS		
SEE SHEET 9 FOR DETAILS		
<u>APPROXIMATELY 1-1/4" THICK OVERALL</u> 0.250" TEMPERED GLASS / .470" AIRSPACE; ALUMINUM SPACER / 0.1875" HEAT STRENGTHENED GLASS / 0.115" SG BY KURARAY AMERICA / 0.1875" HEAT STRENGTHENED GLASS		

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ANCHOR LAYOUT

INTERIOR VIEW

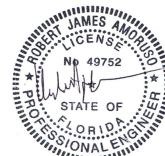
INSTALLATION NOTES:

- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM, SHIM WHERE SPACE OF 1/16" OR GREATER OCCURES. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- FOR ANCHORING THROUGH FRAME OR INSTALLATION CLIP INTO CONCRETE OR MASONRY USE 1/4" ADVANCED THREADFORM TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:
 - CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/2" MINIMUM EDGE DISTANCE.
 - CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
- FOR ANCHORING THROUGH FRAME OR INSTALLATION CLIP INTO WOOD FRAMING OR 2 BY BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE.
- CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS.
- WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 S.G. (NON-HVHZ) AND 0.55 S.G. (HVHZ)
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WT. (DENSITY) > (117 PCF) MASONRY, CMU MIN.
- HEAD AND SILL ANCHORS SPACED EQUALLY ABOUT PANEL CENTERLINE BETWEEN END ANCHORS (AT JAMBS AT 3.75" MAX.) AND PANEL INTERLOCK/ASTRAGAL (5" ON EITHER SIDE OF INTERLOCK/ASTRAGAL).

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

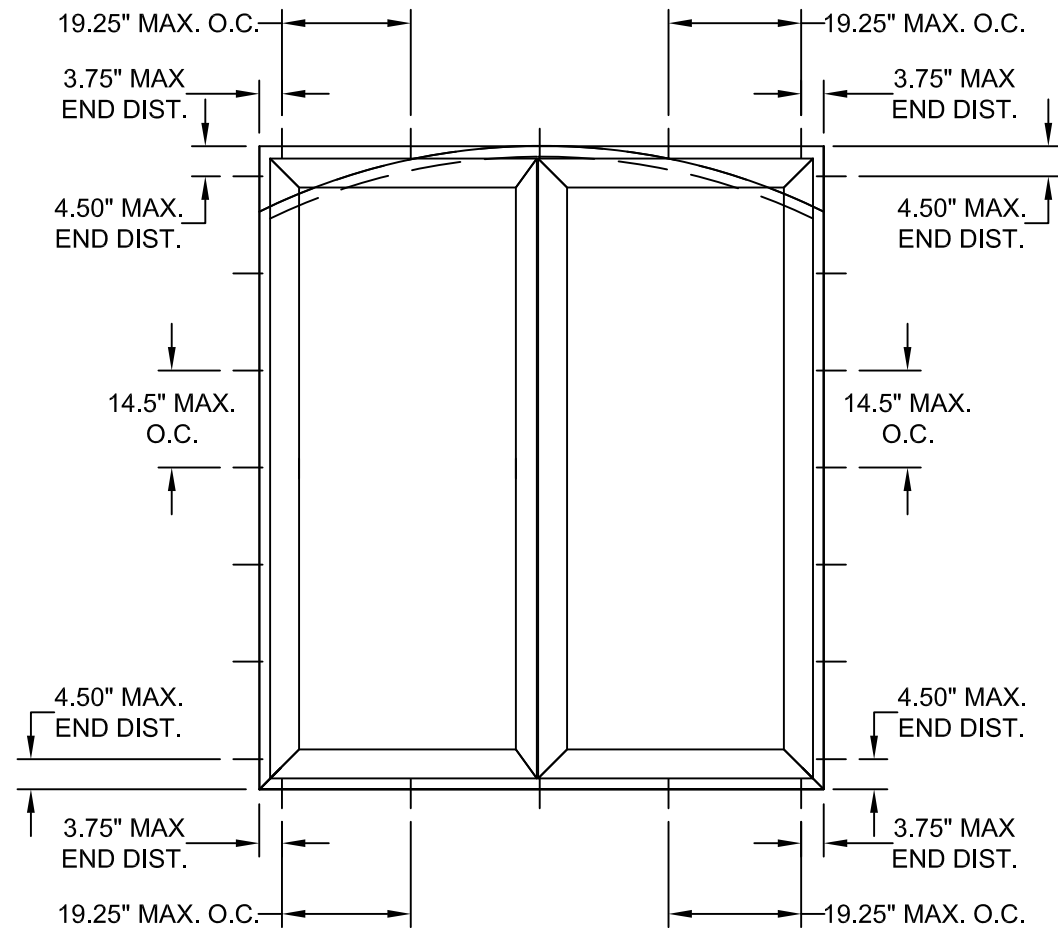
UNILUX GMBH		NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY	
TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW ANCHOR NOTES AND LAYOUT		DRAWN BY: JRM	DATE: 02/08/16
		SCALE: N.T.S.	DRAWING NO: NL_0058
		REV: A	SHEET: 3 OF 11

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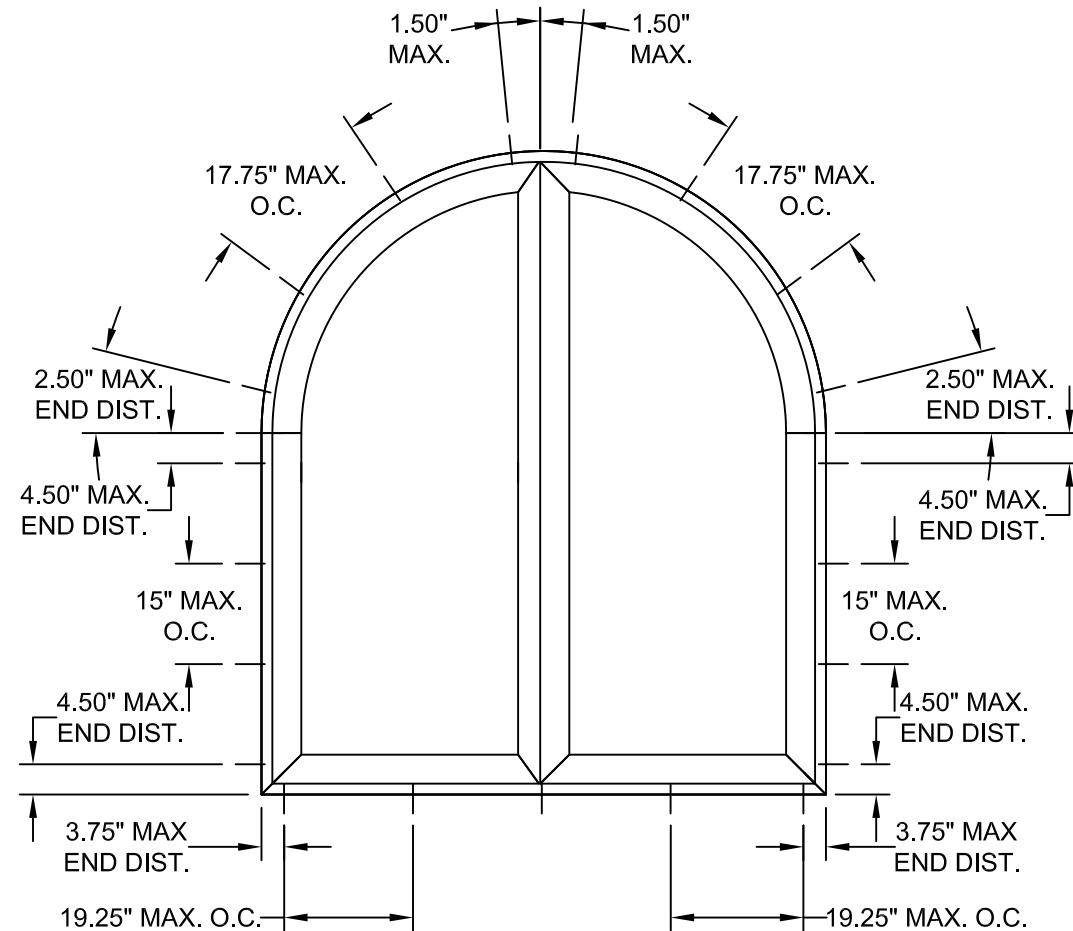


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ANCHOR LAYOUT
INTERIOR VIEW



ANCHOR LAYOUT
INTERIOR VIEW

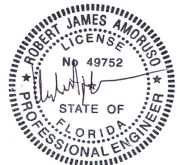
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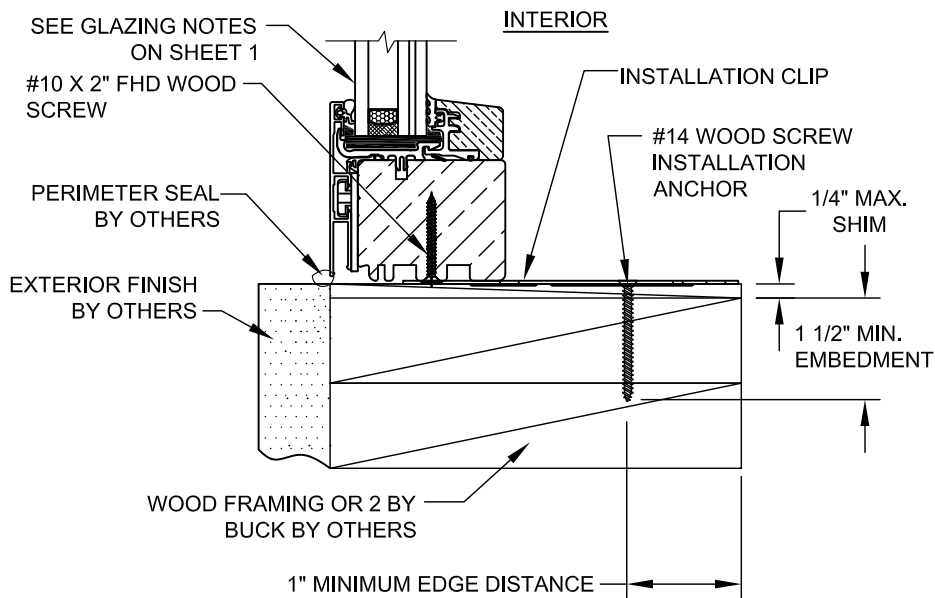
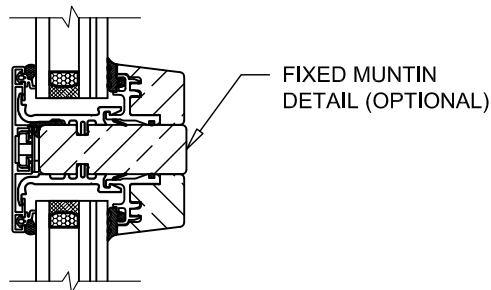
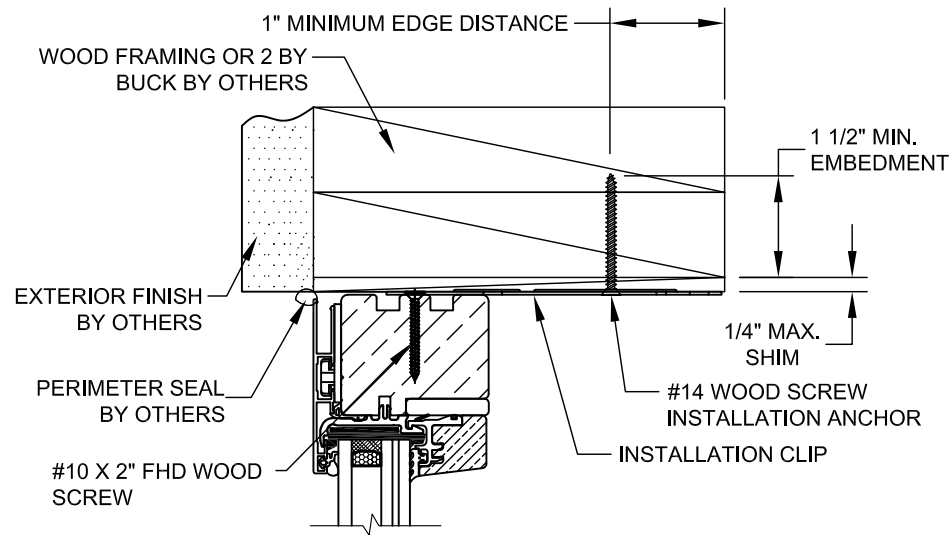
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TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW		ANCHOR NOTES AND LAYOUT	
DRAWN BY:	JRM	DATE:	02/08/16
SCALE:	N.T.S.	DRAWING NO:	NL_0058
REV:	A	SHEET:	4 OF 11

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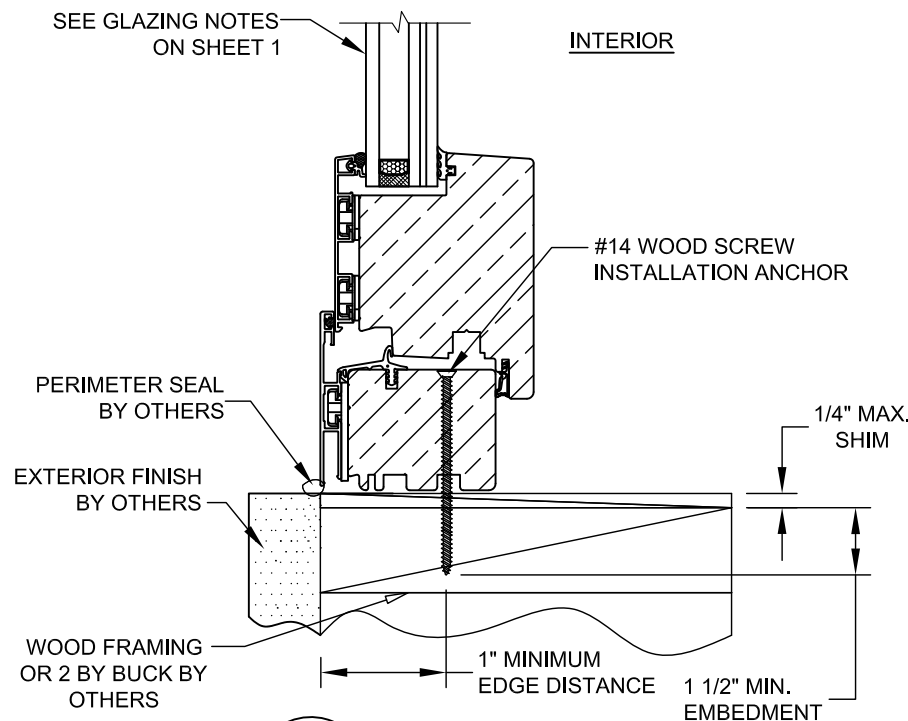
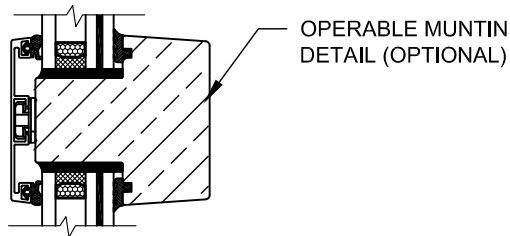
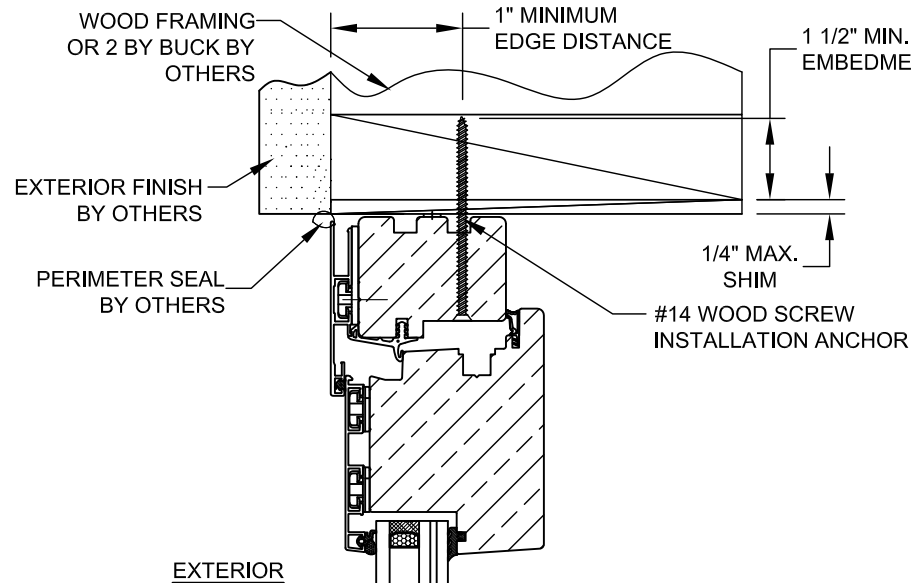


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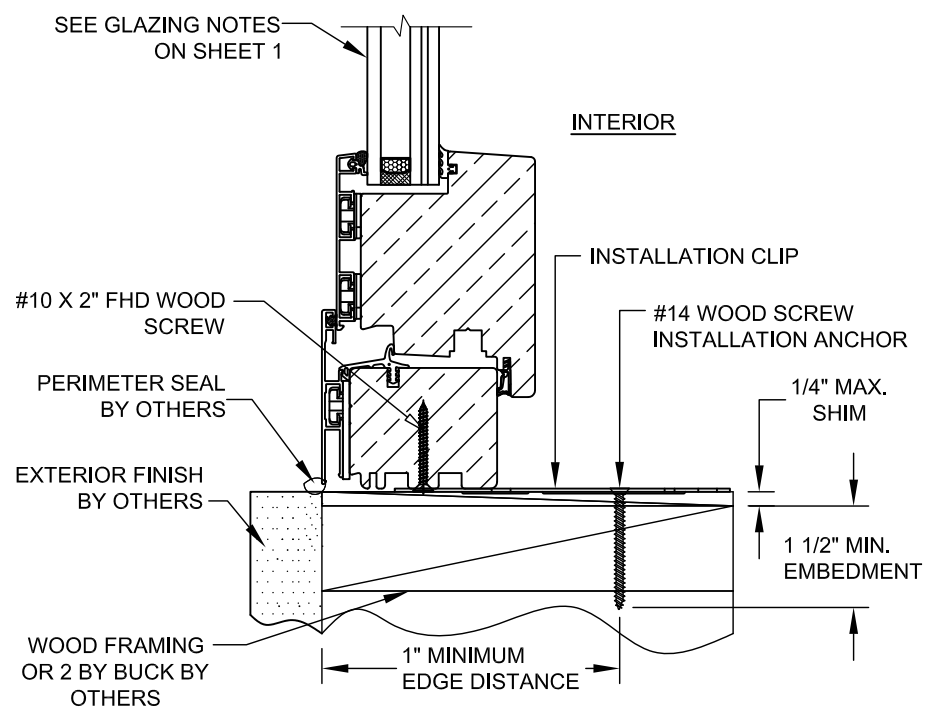
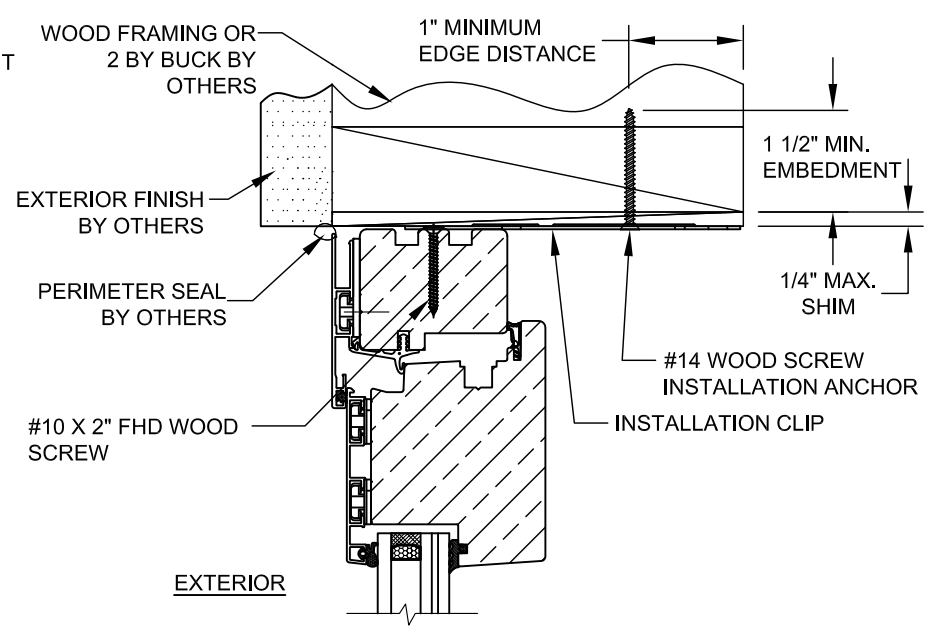
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A
5 **VERTICAL SECTION**
INSTALLATION CLIP
2 BY WOOD SUBSTRATE
STATIONARY PANEL



B
5 **VERTICAL SECTION**
2 BY WOOD SUBSTRATE
OPERABLE PANEL

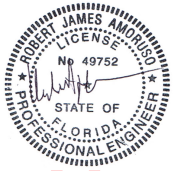


C
5 **VERTICAL SECTION**
INSTALLATION CLIP
2 BY WOOD SUBSTRATE
OPERABLE PANEL

UNILUX GMBH
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY
TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW
VERTICAL INSTALLATION DETAILS

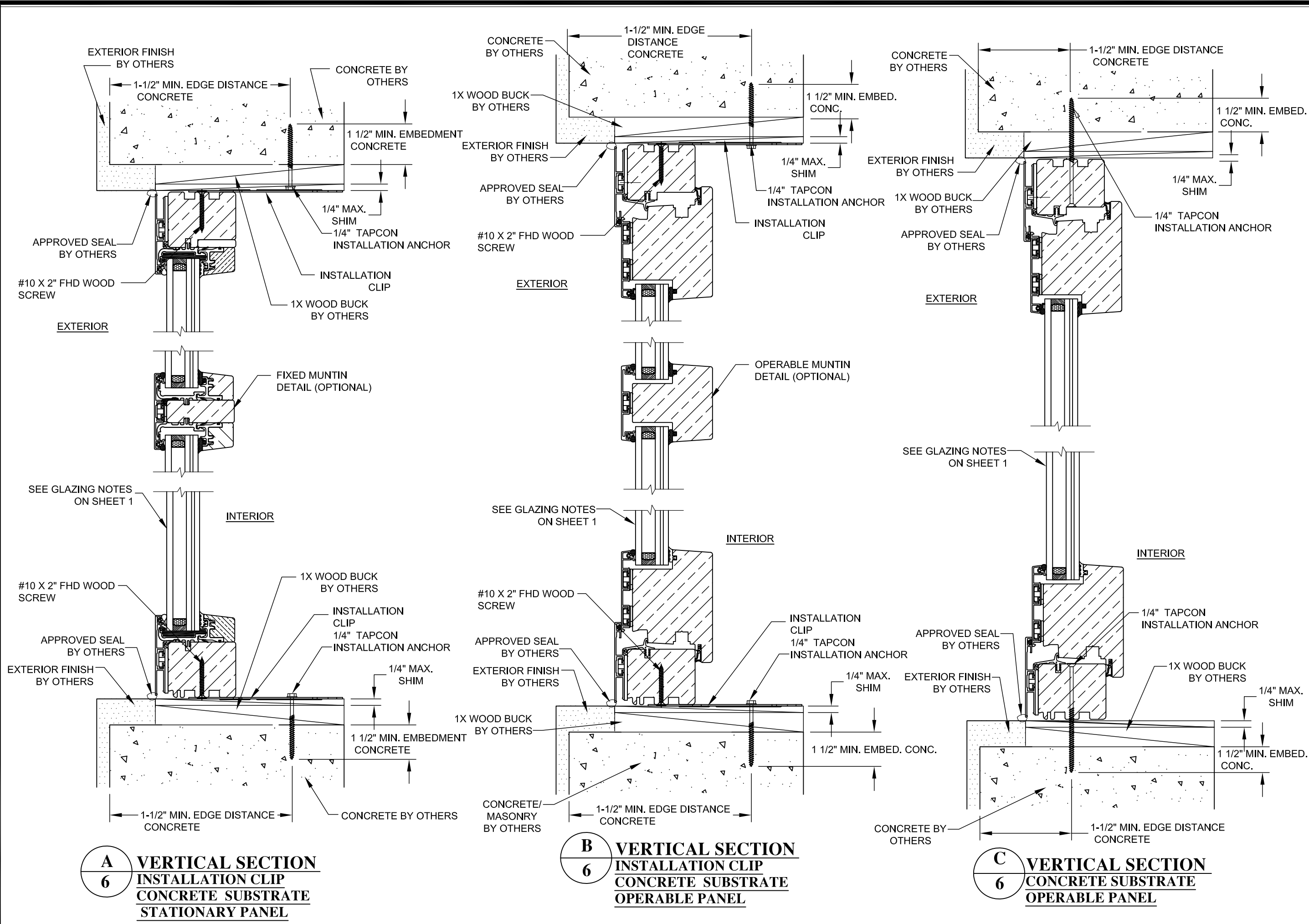
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SCALE: N.T.S.
SHEET: 5 OF 11
REV: A
DESCRIPTION: UPDATE TO 6TH ED. (2017) FBC
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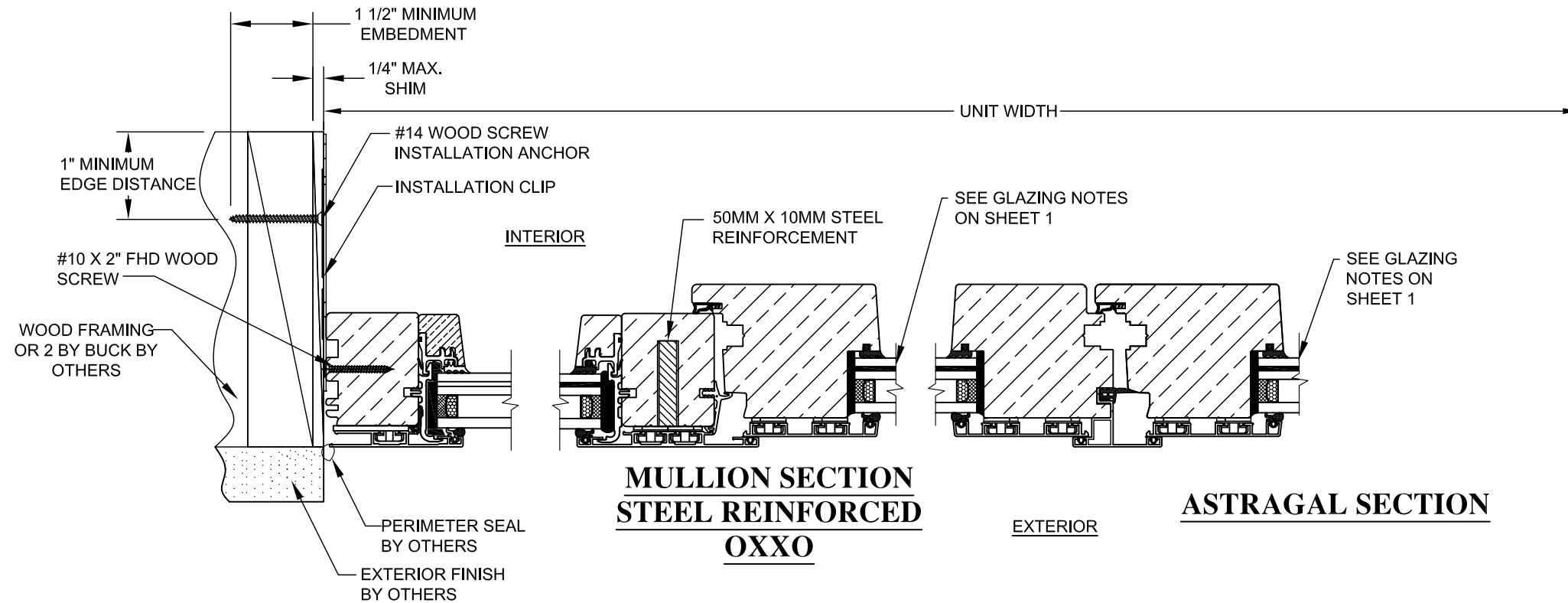


UNILUX GMBH		NIKOLAUS-MEETH-STR. 1, DE 54528 SALTAL, GERMANY	
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		SCALE: N.T.S.	DRAWING NO: NL_0058
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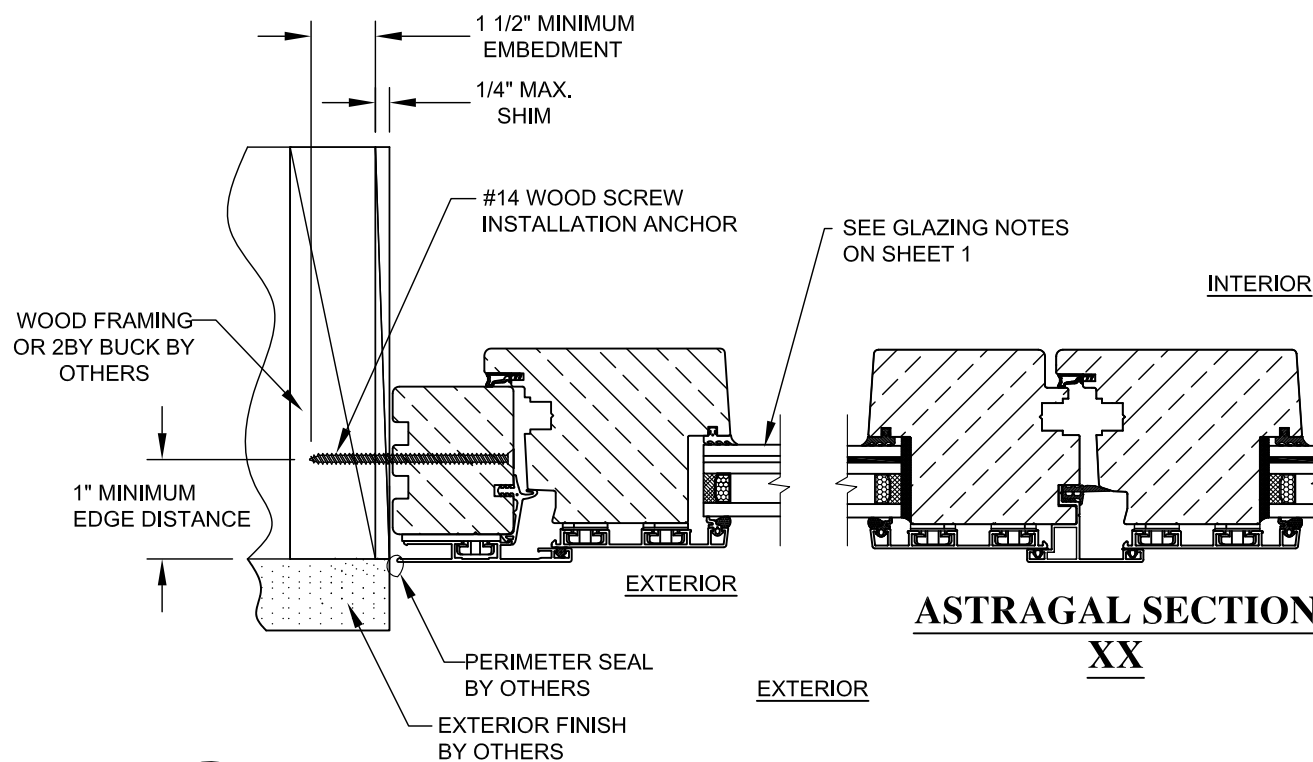
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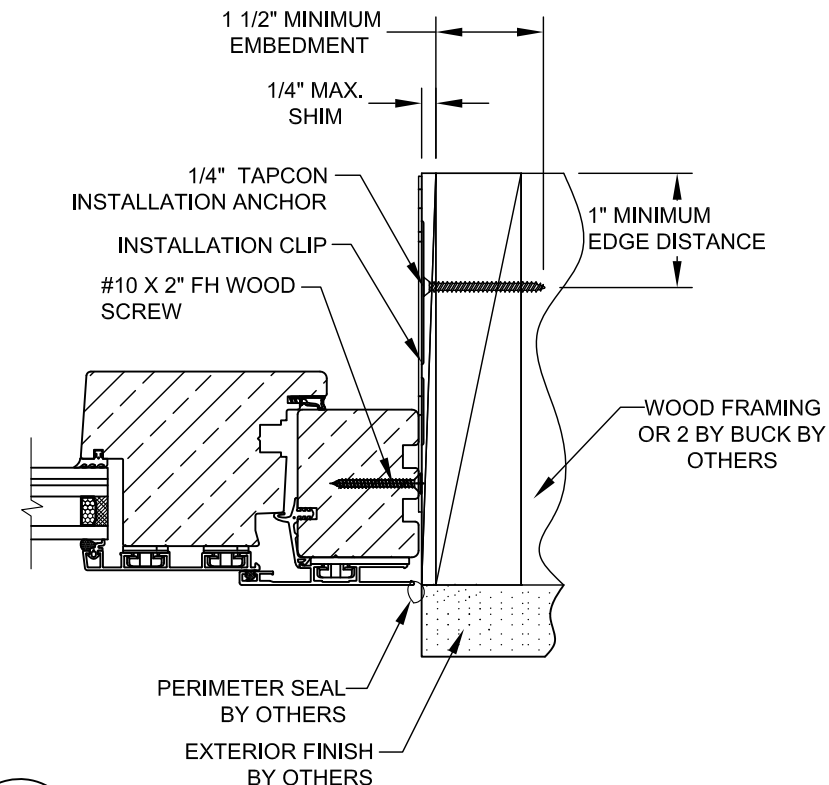
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D
8 **HORIZONTAL SECTION**
INSTALLATION CLIP
2 BY WOOD SUBSTRATE
STATIONARY JAMB



E
8 **HORIZONTAL SECTION**
2 BY WOOD SUBSTRATE
OPERABLE JAMB

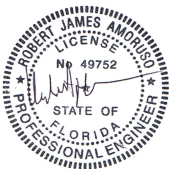


F
8 **HORIZONTAL SECTION**
2 BY WOOD SUBSTRATE
INSTALLATION CLIP
OPERABLE JAMB

UNILUX GMBH
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY
TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW
HORIZONTAL INSTALLATION DETAILS

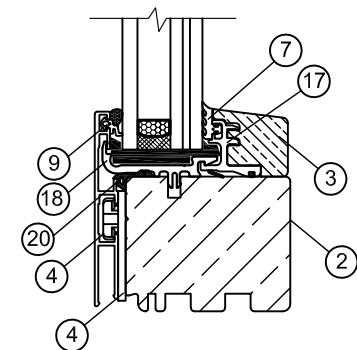
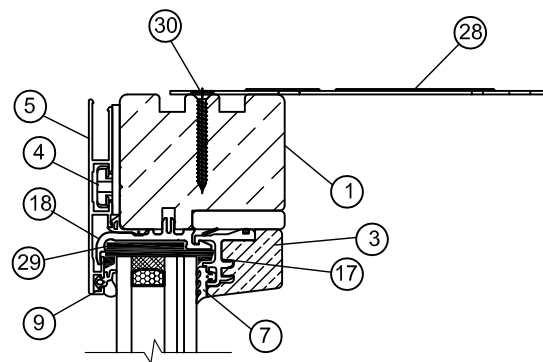
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SCALE: N.T.S.
REV: A
DATE: 02/08/16
DRAWING NO: NL_0058
SHEET: 8 OF 11

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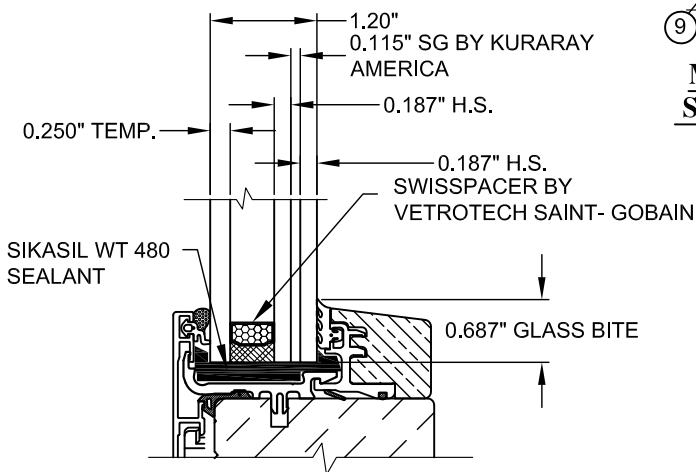


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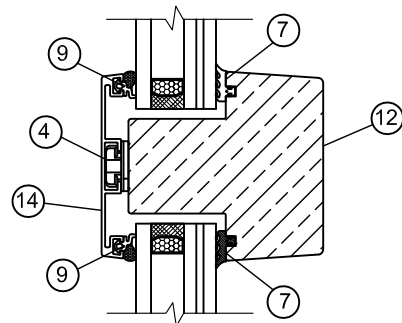
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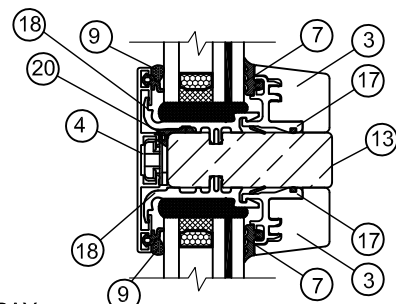
**FIXED VERTICAL CROSS
SECTION FOR PARTS
IDENTIFICATION**



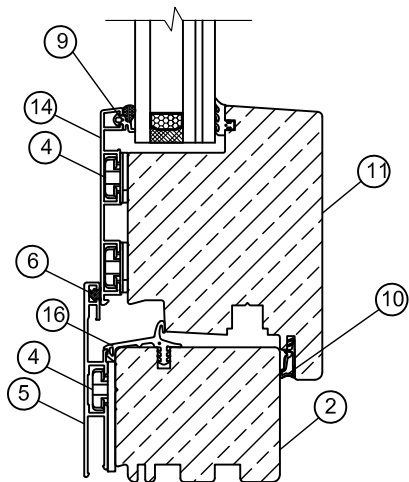
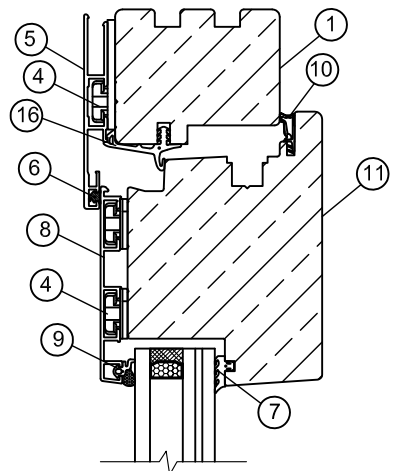
GLAZING DETAIL



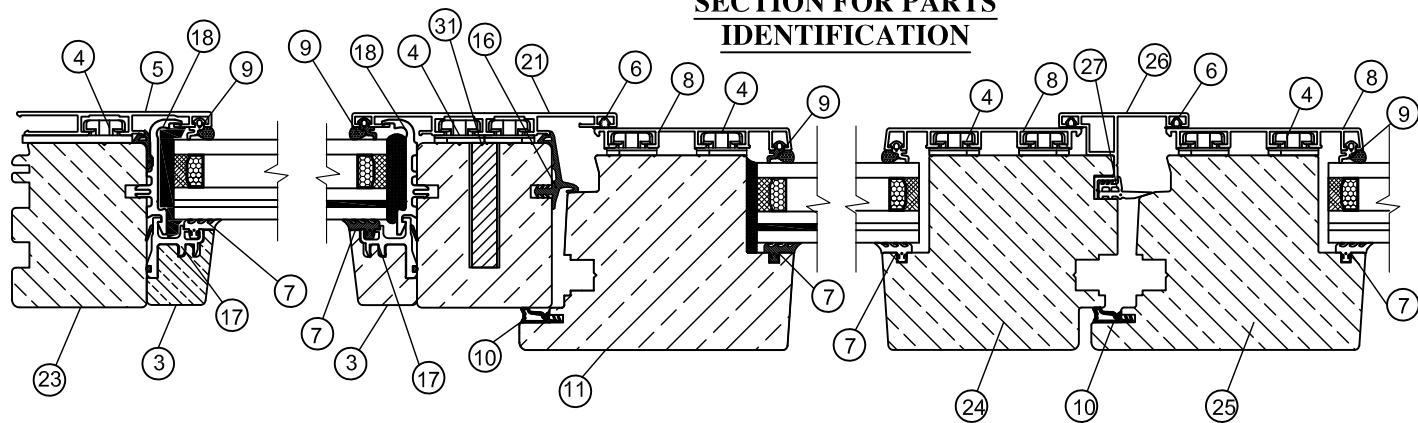
**MUNTIN CROSS
SECTION-SASH**



**MUNTIN CROSS
SECTION - FIXED**



**VERTICAL CROSS
SECTION FOR PARTS
IDENTIFICATION**



**HORIZONTAL CROSS
SECTION FOR PARTS
IDENTIFICATION**

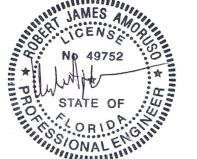
QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	F41-0007-1	FRAME, WOOD G .50	UNILUX
2	F41-0019-1	FRAME, SILL WOOD G .50	UNILUX
3	F51-0111	GLAZING STOP, WOOD G. .50	UNILUX
4	E41-0116	CLADDING FASTENER, PLASTIC GF 30	UNILUX
5	E51-0002	CLADDING, 6060-T5 ALUMINUM	UNILUX
6	E41-1003	CENTER SEAL, RUBBER EPDM	UNILUX
7	E41-1002	GLAZING GASKET, RUBBER EPDM	UNILUX
8	E55-0005	CLADDING SASH, 6060-T5 ALUMINUM	UNILUX
9	E41-1029	GLAZING VINYL GASKET	UNILUX
10	E51-1006	SASH GASKET	UNILUX
11	F51-0013-39	FRAME, SASH OPERABLE-WOOD G.50	UNILUX
12	F51-0029-39	SASH MUNTIN-WOOD G .50	UNILUX
13	F41-0027	FRAME MUNTIN-WOOD G .50	UNILUX
14	E55-0011	SASH MUNTIN CLADDING, 6060-T5 ALUMINUM	UNILUX
15	E55-0009	FIXED MUNTIN CLADDING, 6060-T5 ALUMINUM	UNILUX
16	E51-1012	FRAME GASKET, EPDM RUBBER 70 DUR	UNILUX
17	E51-0187	GLAZING RETAINER, PLASTIC GF 30	UNILUX
18	E51-0189	FIXED GLAZING ADAPTER, PLASTIC GF 30	UNILUX
19	E51-0189	FIXED GLAZING BOT. ADAPTER, PLASTIC GF 30	UNILUX
20	E41-1028	GLAZING VINYL GASKET BOTTOM, EPDM RUBBER	UNILUX
21	E51-0004	CLADDING FIXED, 6060-T5 ALUMINUM	UNILUX
23	F41-0006-1	FIXED SIDE JAMB, WOOD G .50	UNILUX
24	F51-0051-39	ASTRAGAL LEFT, WOOD G .50	UNILUX
25	F51-0053-39	ASTRAGAL RIGHT, WOOD G .50	UNILUX
26	E51-0003	ASTRAGAL CLADDING, 6060-T5 ALUMINUM	UNILUX
27	E41-1004	CLADDING GASKET, EPDM RUBBER 70 DUR	UNILUX
28	E41-2015-2	INSTALLATION CLIP, STEEL	SIMPSON
29	PURCHASE	SIKA FLEX, SEALANT 480-205 CLEANER	SIKA
30	PURCHASE	4MM X 40MM FHD SMS	-----
31	PURCHASE	10MM X 50MM STEEL REINFORCEMENT	-----

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

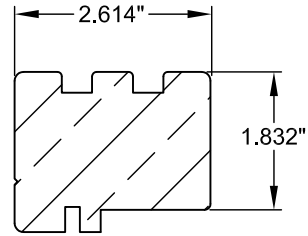
TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW
B.O.M. & CROSS SECTIONS

DRAWN BY: JRM
DATE: 02/08/16
SCALE: N.T.S.
REV: A
SHEET: 9 OF 11

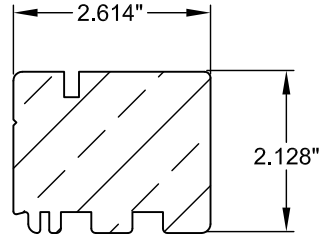
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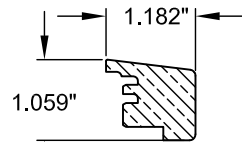
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12472 LAKE
UNDERHILL RD
NO. 148
ORLANDO, FL 32828
robert.amoruso@
comcast.net



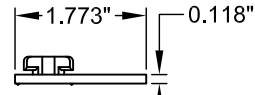
1 F41-0007-1
FRAME HEAD
WOOD G. .50



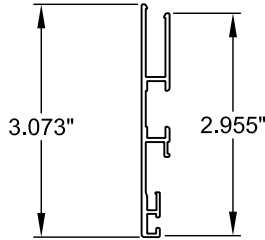
2 F41-0019-1
FRAME BOTTOM
WOOD G. .50



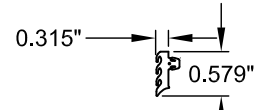
3 F51-0111
GLASS STOP
WOOD G .50



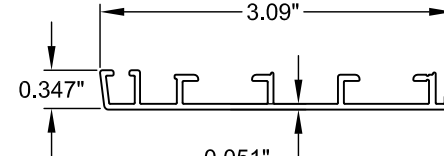
4 E41-0116
CLADDING FASTENER
PLASTIC GF 30



5 E51-0002
CLADDING PROFILE
ALUMINUM 6060 T5
0.051" THICK



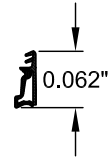
7 E41-1002
GLAZING GASKET
EPDM 70 DUROMETER



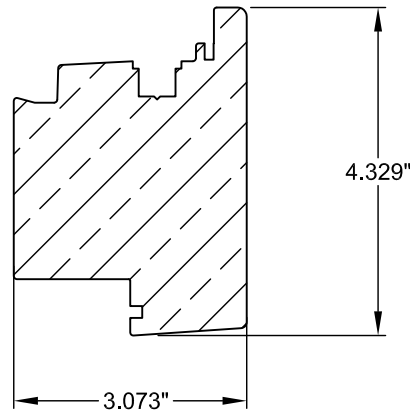
8 E55-0005
SASH CLADDING PROFILE
ALUMINUM 6060 T5
0.051" THICK



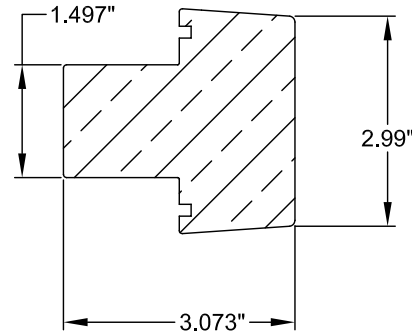
9 E41-1029
GLAZING GASKET
EPDM 80 DUROMETER



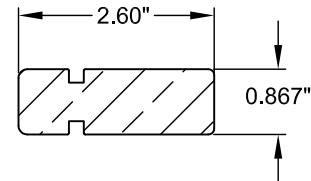
10 E51-1006
GLAZING GASKET
EPDM 70 DUROMETER



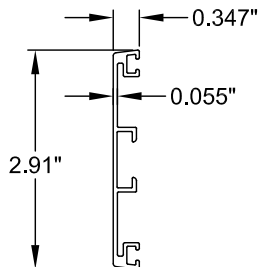
11 F51-0013-39
OPERABLE SASH
WOOD G.50



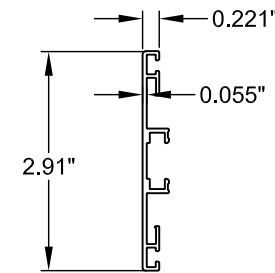
12 F51-0029-13
SASH MUNTIN WOOD G.50



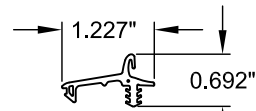
13 F41-0027
FIXED MUNTIN WOOD G.50



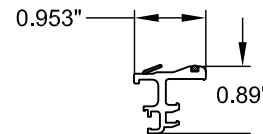
14 E55-0011
CLADDING MUNTIN PROFILE
SASH ALUMINUM 6060 T5
0.055" THICK



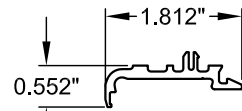
15 E55-0009
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FIXED ALUMINUM 6060 T5
0.055" THICK



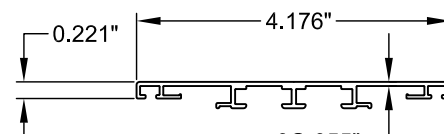
16 E51-1012
FRAME GASKET
EPDM 70 DUROMETER



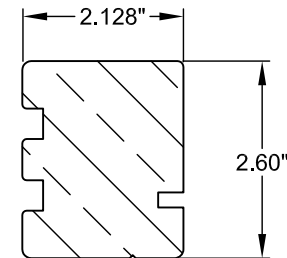
17 E51-0187
GLAZING GASKET
PLASTIC GF 30



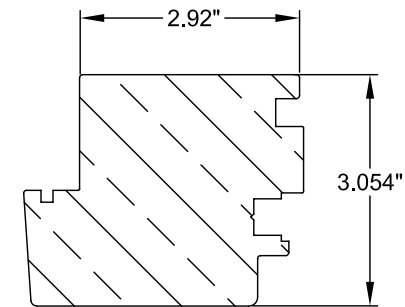
18 E51-0189
FIXED GLAZING ADAPTER
PLASTIC GF 30



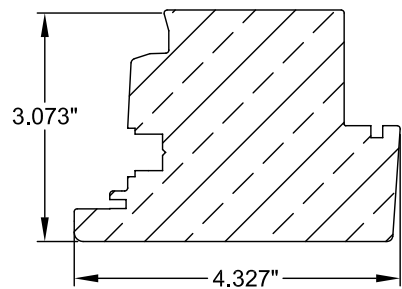
21 E51-0004
CLADDING MUNTIN PROFILE
FIXED ALUMINUM 6060 T5
0.055" THICK



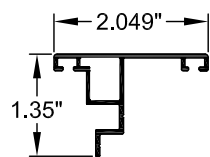
23 F41-0006-1
FRAME SIDE
WOOD G. .50



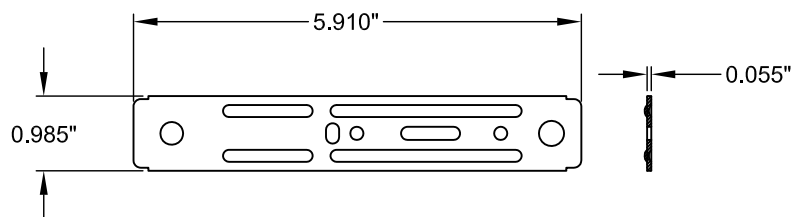
24 F51-0051-39
ASTRAGAL LEFT
WOOD G.50



25 F51-0053-39
ASTRAGAL RIGHT
WOOD G.50



26 E51-0003
CLADDING ASTRAGAL PROFILE
ALUMINUM 6060 T5
0.055" THICK



28 E41-2015-2
INSTALLATION CLIP
GALVANIZED STEEL
0.0551" THICK

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

TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW COMPONENTS

DRAWN BY: JRM

SCALE: N.T.S.

REV: A

DATE: 02/08/16

DRAWING NO: NL_0058

SHEET: 10 OF 11

DESCRIPTION

REV

DATE

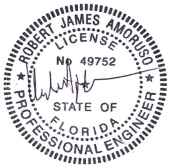
BY

9/30/17

RJA

UPDATE TO 6TH ED.
(2017) FBC

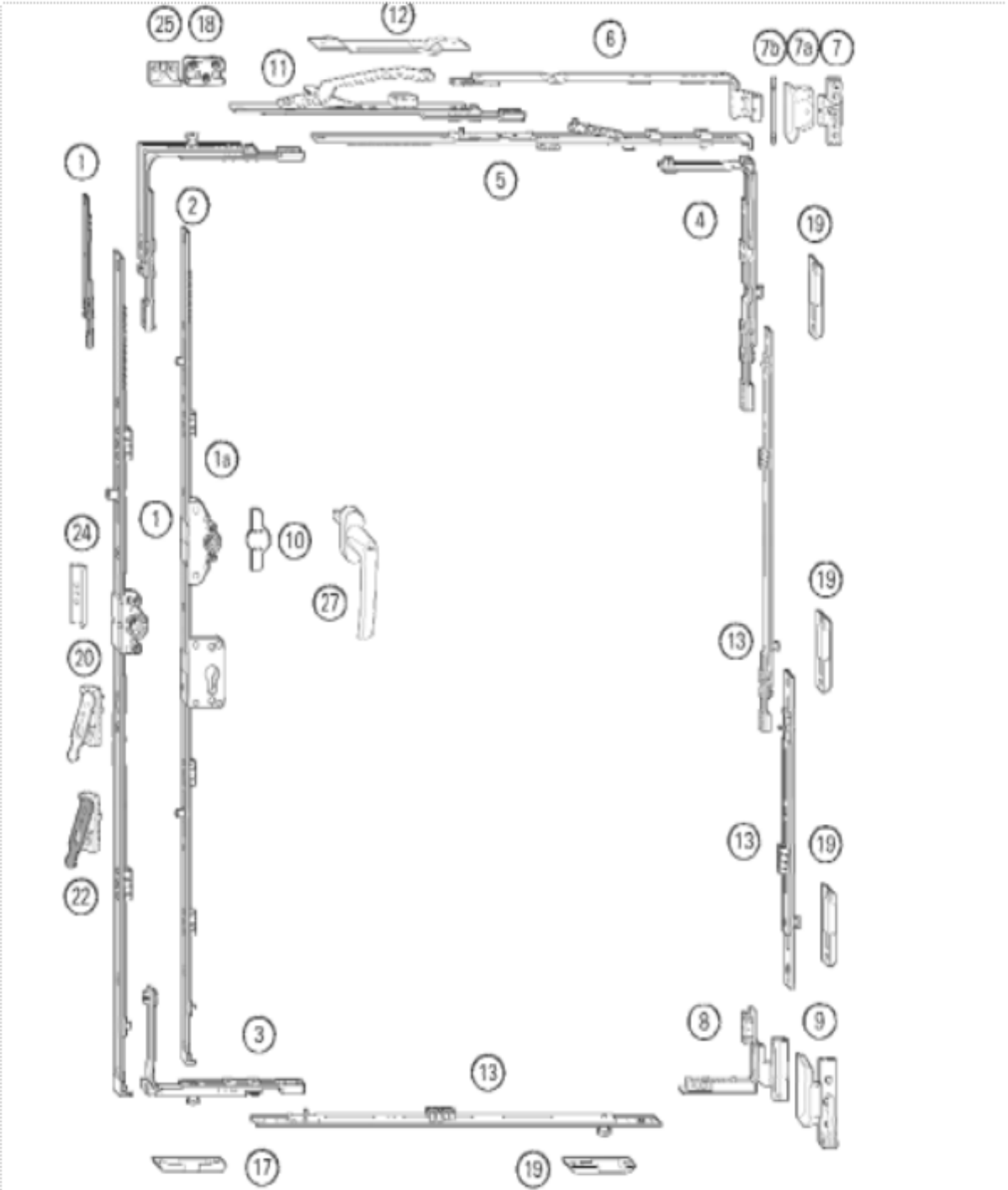
ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed by
Robert J Amoruso
Date: 2017.10.01
15:02:51 -04'00'

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

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

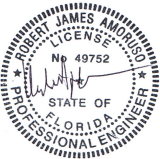


DK HARDWARE

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

UNILUX GMBH		DATE: 02/08/16		SHEET: 11 OF 11	
NIKOLAUS-MEETH-STR. 1, DE 54528 SALMTAL, GERMANY		DRAWN BY: JRM			
TITLE: SERIES "DKZ" ALUM. CLAD WOOD TILT-N-TURN WINDOW HARDWARE DETAILS		SCALE: N.T.S.			
		REV: A			
		DRAWING NO: NL_0058			

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



Digitally signed by
Robert J Amoruso
Date: 2017.10.01
15:03:04 -04'00'

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comcast.net