

KOMMERLING USA, INC.

SINGLE HADK 76 MD TILT-TURN WINDOW

DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FALSE MULL POST

DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FIXED MULL POST

VINYL NON-IMPACT (X & XX)

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
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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 THE FOLLOWING TEST REPORTS:

1.1. TEST REPORT NO. NCTL-210-4176-01, SINGLE HADK 76 MD TILT-TURN WINDOW

1.2. TEST REPORT NO. NCTL-210-4176-02, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FALSE MULL POST

1.3. TEST REPORT NO. NCTL-210-4176-03, DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FIXED MULL POST
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 REQ'D.
7. MATERIALS:

FRAME: RIGID PVC / VINYL
8. GLAZING:

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

8.2. SEE GLAZING DETAILS ON SHEET 5 OF 5.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. PANEL OPERABILITY DESIGNATIONS:

9.1. WINDOW IS AN OPERABLE PANEL (X).

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 INTO MASONRY/CONCRETE USE 3/16" DIA. ADVANCED THREADFORM TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/8" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. FOR ANCHORING INSTALLATION CLIP INTO WOOD FRAMING OR 2 BY BUCK USE #14 WOOD SCREWS (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. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2 BY BUCK USE #14 WOOD SCREWS (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
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

7.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42 (NON-HVHZ).

7.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

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

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KOMMERLING USA, INC.
3415-A STANWOOD BLVD. N.E.
HUNTSVILLE, AL 35811

SERIES 76MD TILT-TURN WINDOW
VINYL NON-IMPACT
GENERAL NOTES

DRAWN:
JRM

DWG NO.
NL-0137

REV
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SCALE
NTS

DATE
03/02/2020

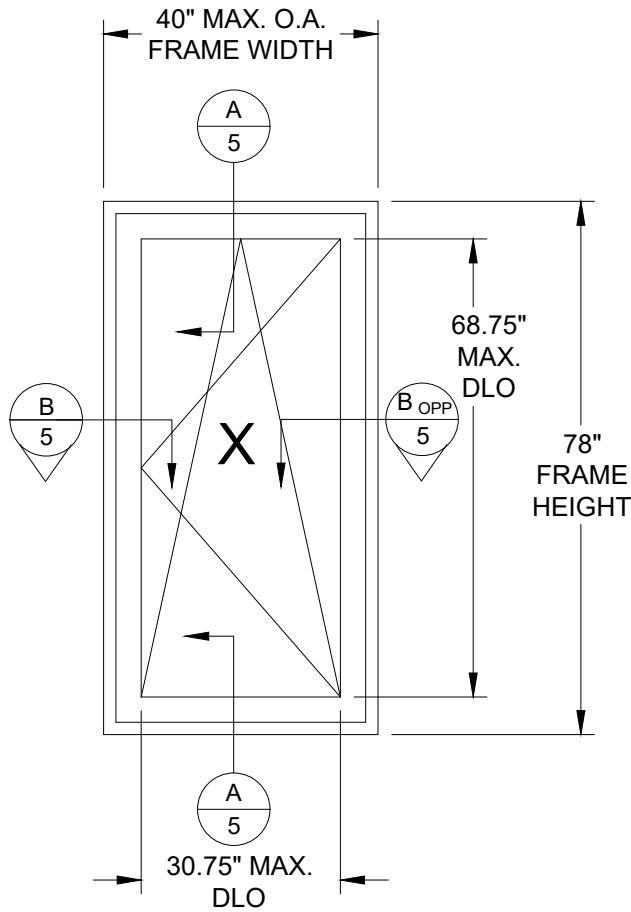
SHEET
1 OF 8

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

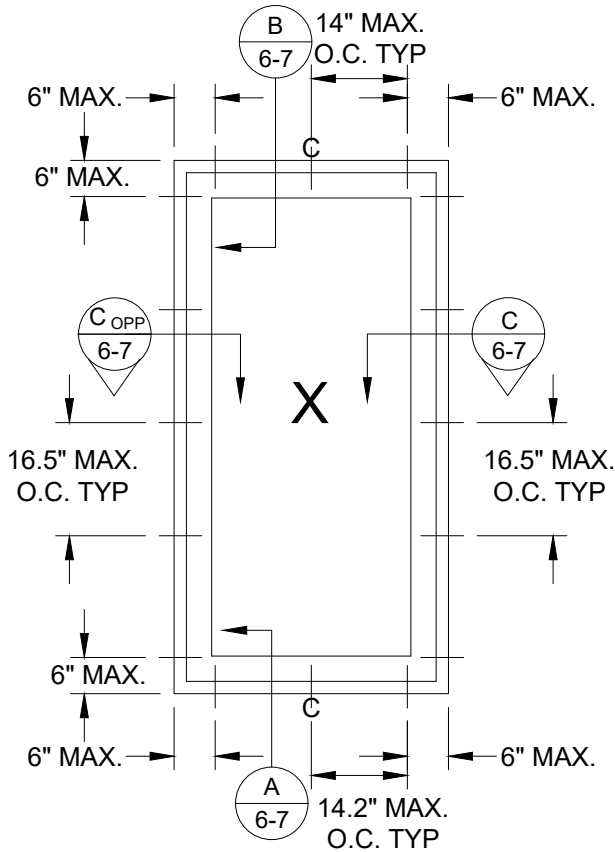
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SINGLE HADK 76 MD TILT-TURN WINDOW

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



ELEVATION LAYOUT
SINGLE HADK 76 MD
TILT-TURN WINDOW



ANCHOR LAYOUT
FRAME AND CLIP
INSTALLATION

COMPARATIVE ANALYSIS TABLE FOR SINGLE HADK 76 MD TILT-TURN WINDOW

Maximum Design Pressure Capacity Chart (psf) for AW-PG65										
Frame Height (in)	Frame Width (in)									
	24.0		28.0		32.0		36.0		40.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.6	97.6
42.0	100.0	100.0	100.0	100.0	97.6	97.6	94.0	94.0	92.3	92.3
48.0	100.0	100.0	97.5	97.5	90.6	90.6	85.9	85.9	82.9	82.9
54.0	100.0	100.0	93.2	93.2	85.9	85.9	80.6	80.6	76.8	76.8
64.0	99.1	99.1	88.4	88.4	80.6	80.6	74.7	74.7	70.3	70.3
72.0	96.7	96.7	85.7	85.7	77.7	77.7	71.6	71.6	66.9	66.9
72.0	96.7	96.7	85.7	85.7	77.7	77.7	71.6	71.6	66.9	66.9
78.0	95.2	95.2	84.2	84.2	76.0	76.0	69.8	69.8	65.0	65.0

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING (AAMA)	IMPACT RATING
40" X 78"	+/- 65.PSF SEE D.P. CHART ON THIS SHEET	X	AW-PG65	NONE
SEE GLAZING DETAIL ON SHT. 5				

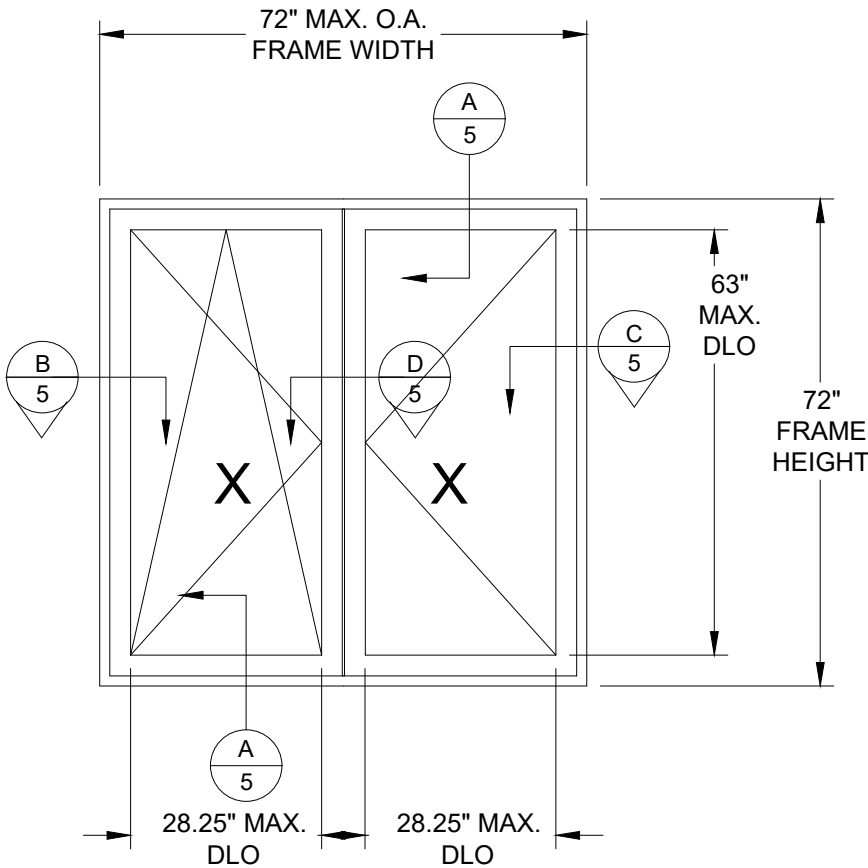
MAXIMUM SIZES (IN)	
FRAME	40 X 78
PANEL	37 X 75
D.L.O	30.75 X 68.75

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SERIES 76MD TILT-TURN WINDOW VINYL NON-IMPACT ELEVATION & ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0137	REV -
SCALE NTS	DATE 03/02/2020	SHEET 2 OF 8

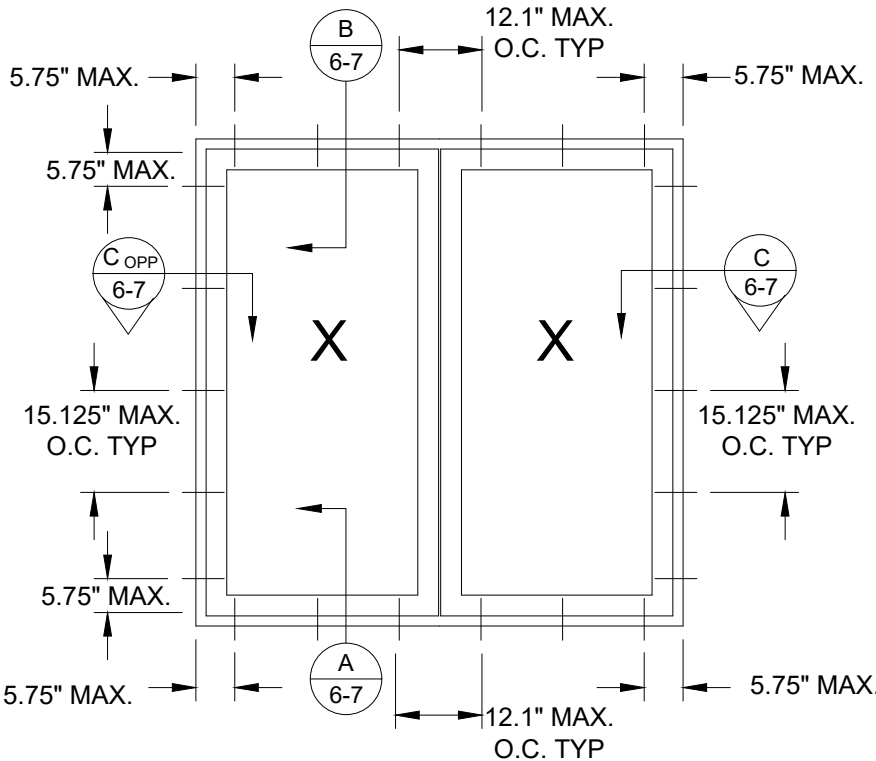
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DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FALSE MULL POST



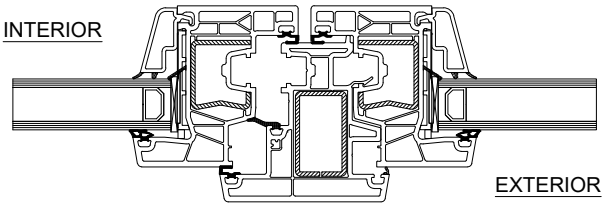
ELEVATION LAYOUT
DOUBLE HADKZ 76 MD
TILT-TURN WINDOW
WITH FALSE MULL POST



ANCHOR LAYOUT
FRAME AND CLIP
INSTALLATION

MAXIMUM SIZES (IN)	
FRAME	72 X 72
PANEL	34.375 X 69
D.L.O	28.25 X 63

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING RATING (AAMA)	IMPACT RATING
72" X 72"	+/- 50 PSF SEE D.P. CHART THIS SHEET	XX	AW-PG50	NONE
72" X 72"	+/- 55 PSF SEE D.P. CHART THIS SHEET	XX	CW-PG55	NONE
SEE GLAZING DETAIL ON SHT. 5				



HORIZONTAL SECTION
FALSE MULL POST

COMPARATIVE ANALYSIS TABLES FOR DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FALSE MULL POST

Maximum Design Pressure Capacity Chart (psf) for AW-PG50														
Frame Height (in)	Frame Width (in)													
	36		42		48		54		60		66		72	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
40	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
44	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
48	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	98.2	70.0	93.5	70.0	90.0
52	70.0	100.0	70.0	100.0	70.0	100.0	70.0	93.5	70.0	87.6	70.0	83.0	70.0	79.4
56	70.0	100.0	70.0	100.0	70.0	92.0	70.0	84.7	70.0	79.0	70.0	74.6	70.0	71.1
60	70.0	100.0	70.0	93.5	70.0	84.4	70.0	77.4	70.0	72.0	67.7	67.7	64.3	64.3
64	70.0	98.2	70.0	86.5	70.0	77.9	70.0	71.3	66.1	66.1	62.0	62.0	58.7	58.7
68	70.0	91.5	70.0	80.5	70.0	72.3	66.1	66.1	61.1	61.1	57.2	57.2	54.0	54.0
72	70.0	85.7	70.0	75.3	67.5	67.5	61.5	61.5	56.8	56.8	53.1	53.1	50.0	50.0

Maximum Design Pressure Capacity Chart (psf) for CW-PG55														
Frame Height (in)	Frame Width (in)													
	36		42		48		54		60		66		72	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
40	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
44	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
48	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	99.0
52	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	96.3	70.0	91.3	70.0	87.4
56	70.0	100.0	70.0	100.0	70.0	100.0	70.0	93.2	70.0	86.9	70.0	82.0	70.0	78.2
60	70.0	100.0	70.0	100.0	70.0	92.8	70.0	85.2	70.0	79.2	70.0	74.5	70.0	70.7
64	70.0	100.0	70.0	95.2	70.0	85.7	70.0	78.4	70.0	72.7	68.2	68.2	64.6	64.6
68	70.0	100.0	70.0	88.5	70.0	79.6	70.0	72.7	67.2	67.2	62.9	62.9	59.4	59.4
72	70.0	94.3	70.0	82.8	70.0	74.3	67.7	67.7	62.5	62.5	58.4	58.4	55.0	55.0

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VINYL NON-IMPACT
ELEVATION & ANCHOR LAYOUT

DRAWN:
JRM

DWG NO.
NL-0137

REV
-

SCALE
NTS

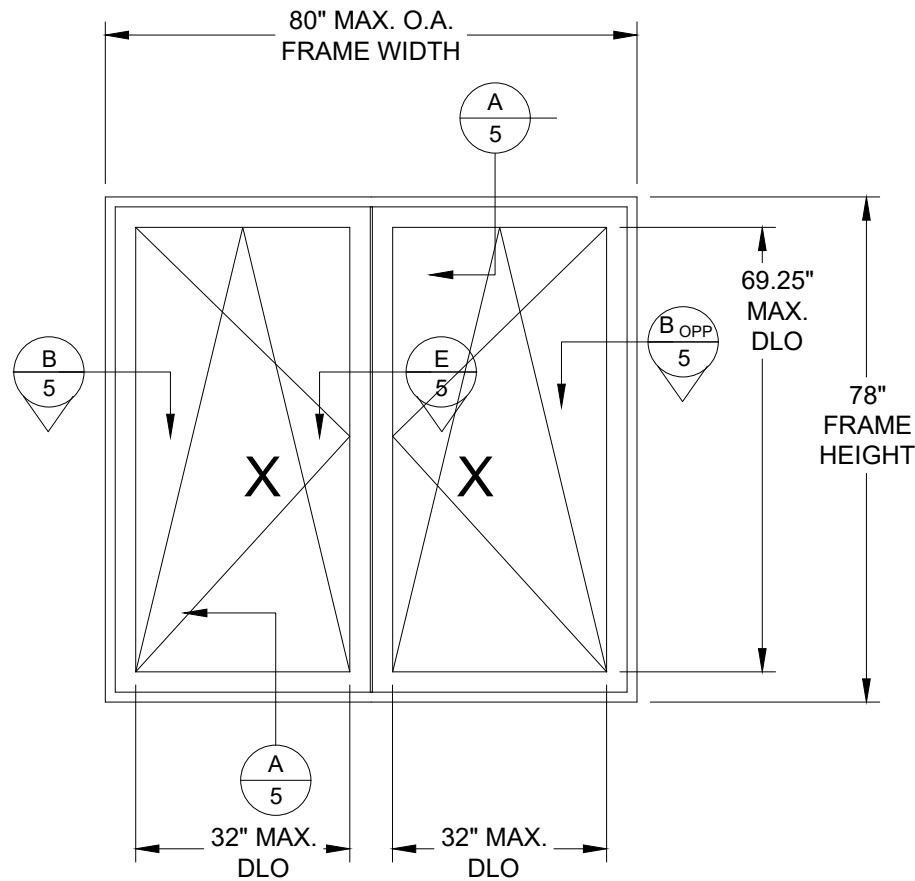
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SHEET
3 OF 8

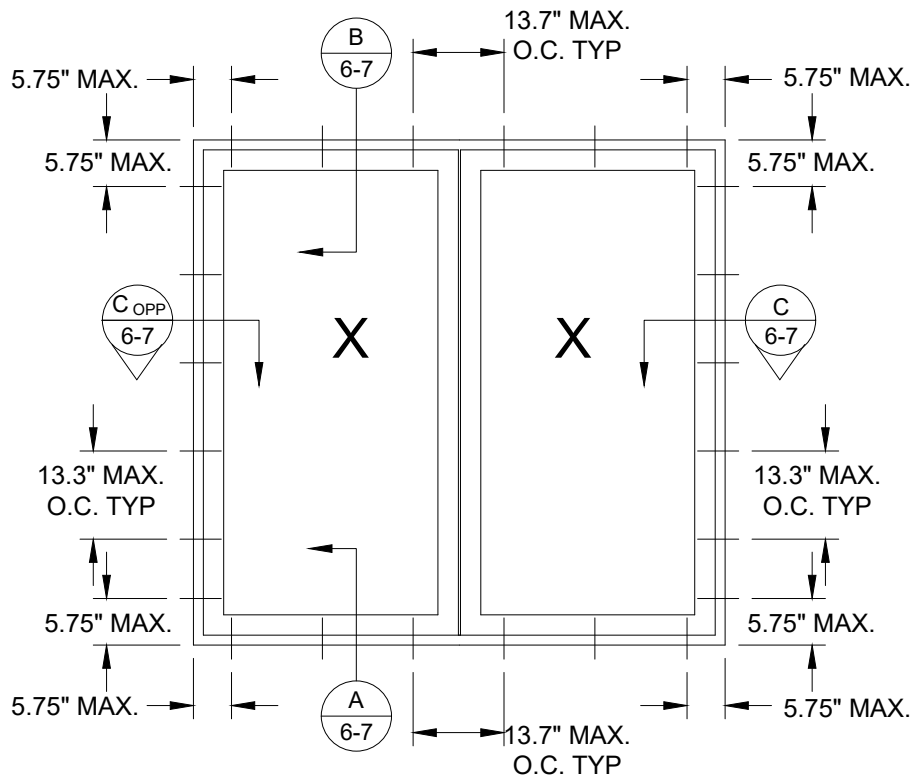
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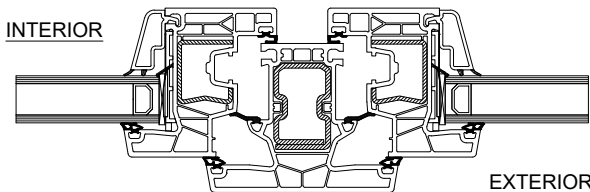
DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FIXED MULL POST



ELEVATION LAYOUT
DOUBLE HADKZ 76 MD
TILT-TURN WINDOW
WITH FIXED MULL POST



ANCHOR LAYOUT
FRAME AND CLIP
INSTALLATION



HORIZONTAL SECTION
FIXED MULL POST

MAXIMUM SIZES (IN)	
FRAME	80 X 78
PANEL	38 X 75
D.L.O	32 X 69.25

DESIGN PRESSURE RATING (PSF)				
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	PRODUCT RATING RATING (AAMA)	IMPACT RATING
80" X 78"	+/- 50 PSF SEE D.P. CHART THIS SHEET	XX	AW-PG50	NONE
80" X 78"	+/- 60 PSF SEE D.P. CHART THIS SHEET	XX	CW-PG60	NONE
SEE GLAZING DETAIL ON SHT. 5				

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

COMPARATIVE ANALYSIS TABLES FOR DOUBLE HADKZ 76 MD TILT-TURN WINDOW W/FIXED MULL POST

Maximum Design Pressure Capacity Chart (psf) for AW-PG50										
Frame Height (in)	Frame Width (in)									
	48		56		64		72		80	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
40	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
44	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
48	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
52	70.0	100.0	70.0	100.0	70.0	100.0	70.0	94.8	70.0	90.6
56	70.0	100.0	70.0	98.6	70.0	90.6	70.0	84.8	70.0	80.6
60	70.0	100.0	70.0	90.1	70.0	82.4	70.0	76.7	70.0	72.5
64	70.0	92.9	70.0	82.9	70.0	75.5	70.0	70.0	65.9	65.9
68	70.0	86.3	70.0	76.7	69.7	69.7	64.4	64.4	60.4	60.4
72	70.0	80.6	70.0	71.4	64.7	64.7	59.7	59.7	55.8	55.8
76	70.0	75.5	66.8	66.8	60.4	60.4	55.6	55.6	51.8	51.8
78	70.0	73.2	64.7	64.7	58.5	58.5	53.7	53.7	50.0	50.0

Maximum Design Pressure Capacity Chart (psf) for CW-PG60										
Frame Height (in)	Frame Width (in)									
	48		56		64		72		80	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
40	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
44	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
48	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
52	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0
56	70.0	100.0	70.0	100.0	70.0	100.0	70.0	100.0	70.0	96.7
60	70.0	100.0	70.0	100.0	70.0	98.9	70.0	92.1	70.0	87.0
64	70.0	100.0	70.0	99.4	70.0	90.6	70.0	84.1	70.0	79.1
68	70.0	100.0	70.0	92.1	70.0	83.7	70.0	77.3	70.0	72.5
72	70.0	96.7	70.0	85.7	70.0	77.7	70.0	71.6	66.9	66.9
76	70.0	90.6	70.0	80.2	70.0	72.5	66.7	66.7	62.1	62.1
78	70.0	87.9	70.0	77.7	70.0	70.2	64.4	64.4	60.0	60.0

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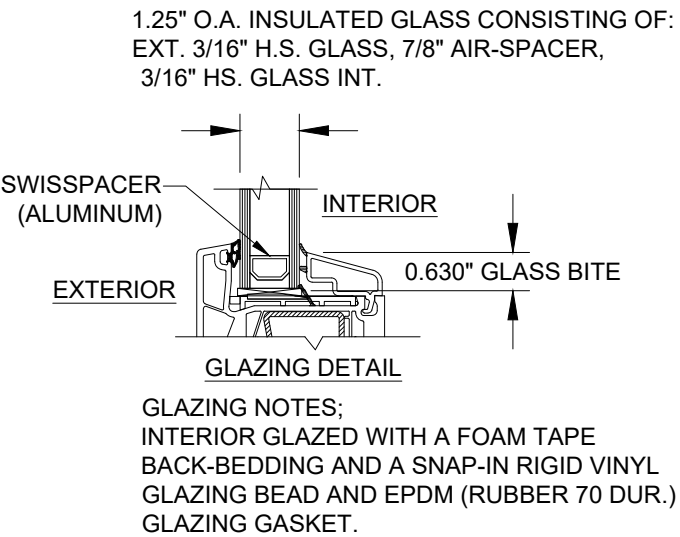
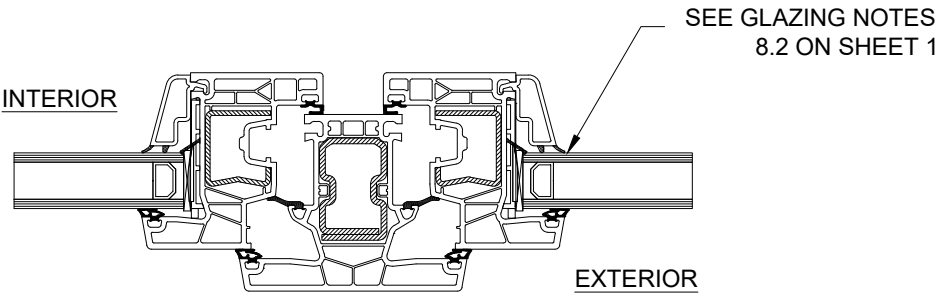
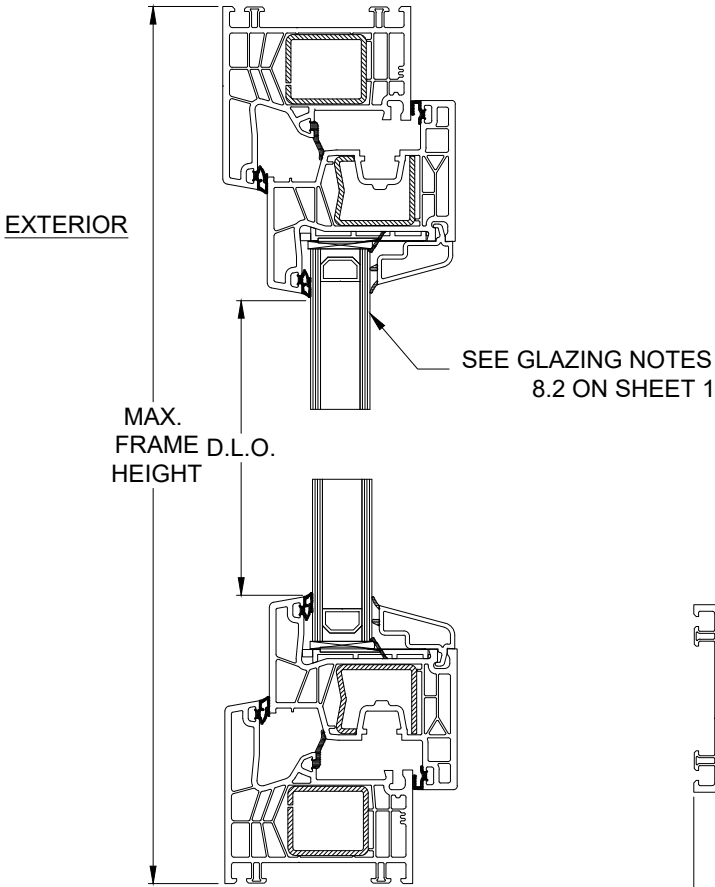
SERIES 76MD TILT-TURN WINDOW
VINYL NON-IMPACT
ELEVATION & ANCHOR LAYOUT

DRAWN: JRM	DWG NO. NL-0137	REV -
SCALE NTS	DATE 03/02/2020	SHEET 4 OF 8

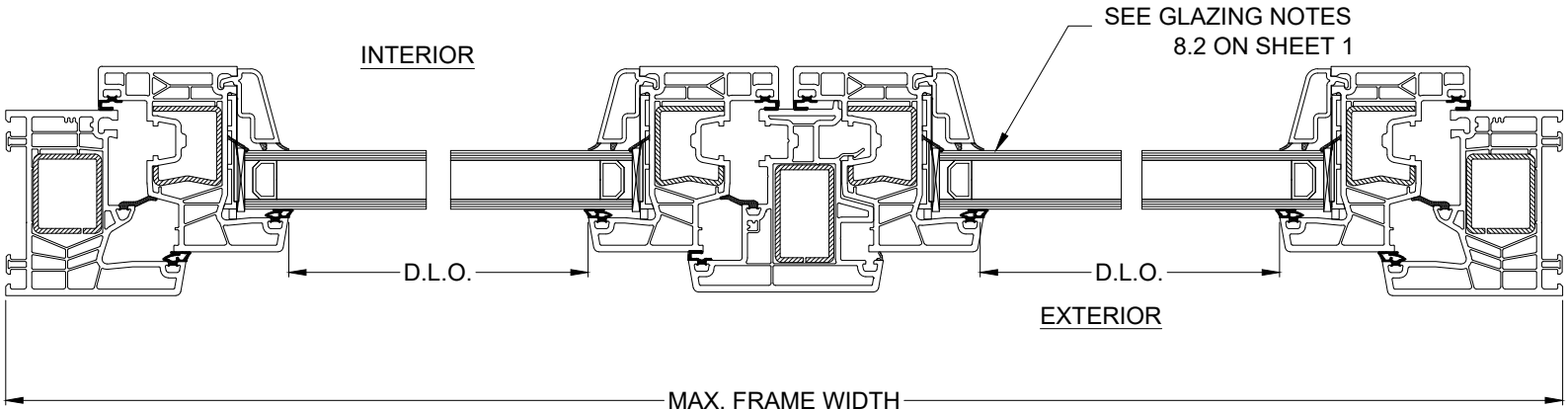
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REVISIONS			
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E
5 **HORIZONTAL SECTION
FIXED MULL POST**

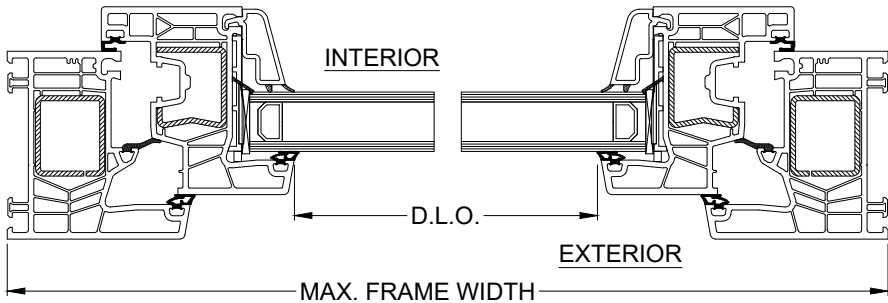


A
5 **VERTICAL SECTION**

B
5 **HORIZONTAL SECTION
TILT-TURN JAMB**

D
5 **HORIZONTAL SECTION
FALSE MULL POST**

C
3 **HORIZONTAL SECTION
TURN JAMB**



B
5 **HORIZONTAL SECTION
FRAME JAMB**

B OPP
5 **HORIZONTAL SECTION
FRAME JAMB**

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HUNTSVILLE, AL 35811

SERIES 76MD TILT-TURN WINDOW

VINYL NON-IMPACT

VERTICAL & HORIZONTAL SECTIONS & GLZG.

DRAWN: JRM

DWG NO. NL-0137

SCALE NTS

DATE 03/02/2020

SHEET 5 OF 8

REV -

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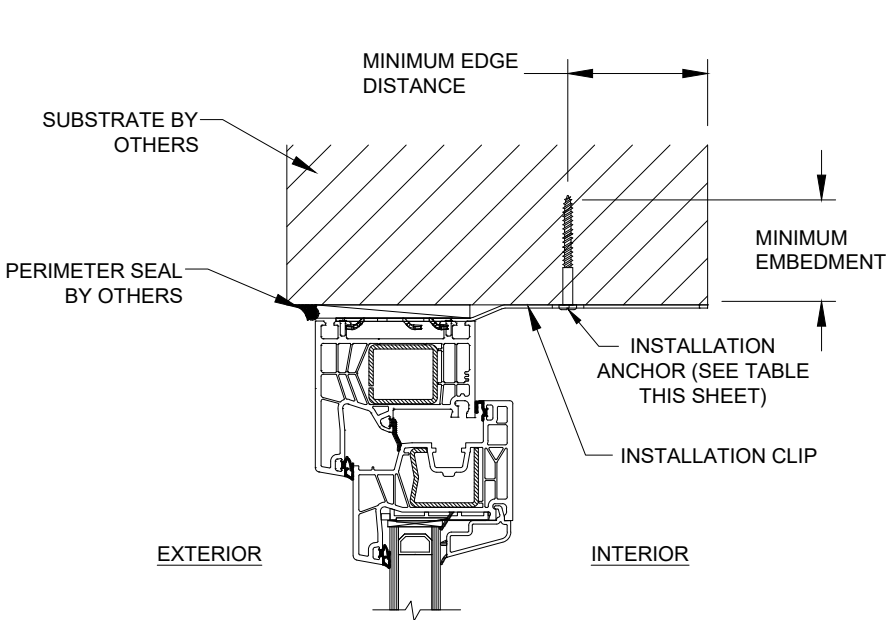
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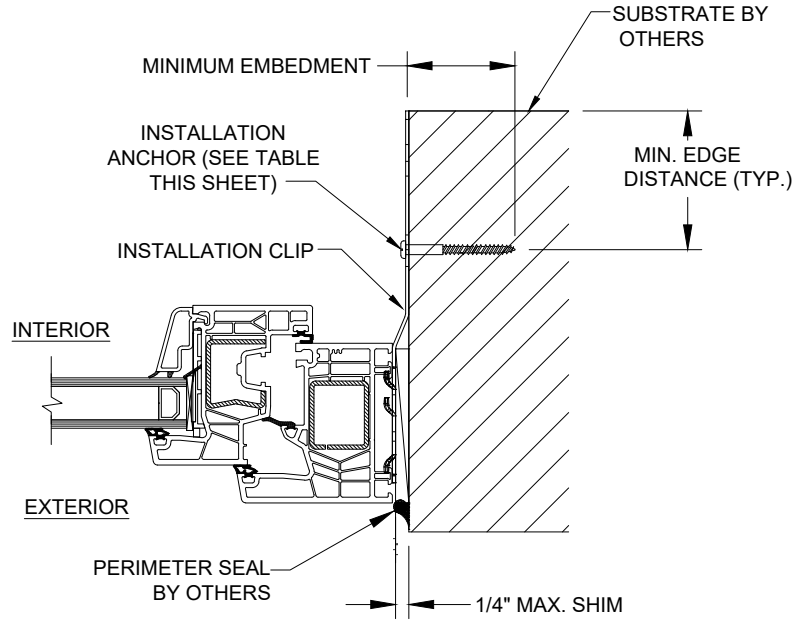
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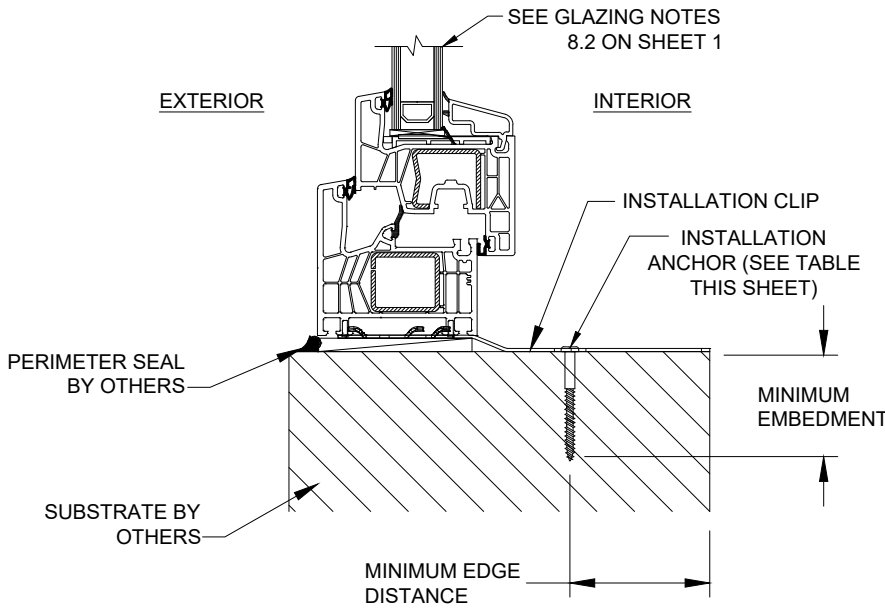
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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



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



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

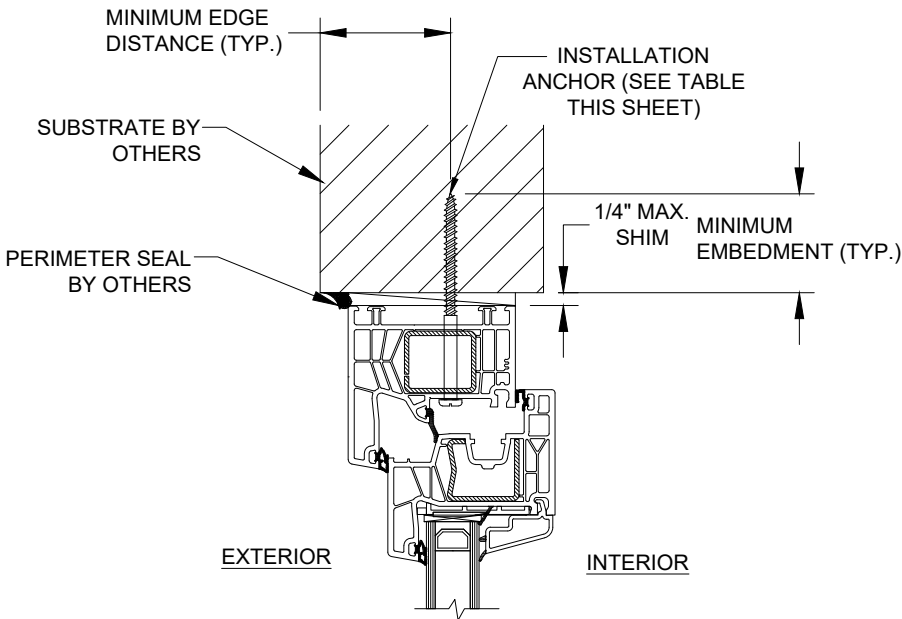
INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1
	CONCRETE	2500 PSI MIN. CONCRETE	3/16 ITW TAPCON	1-1/2	1-1/8
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	3/16 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 3/16" DIAMETER ITW ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

KOMMERLING USA, INC. 3415-A STANWOOD BLVD. N.E. HUNTSVILLE, AL 35811		
SERIES 76MD TILT-TURN WINDOW VINYL NON-IMPACT ANCHOR DETAILS- INSTALLATION CLIP		
DRAWN: JRM	DWG NO. NL-0137	REV -
SCALE NTS	DATE 03/02/2020	SHEET 6 OF 8

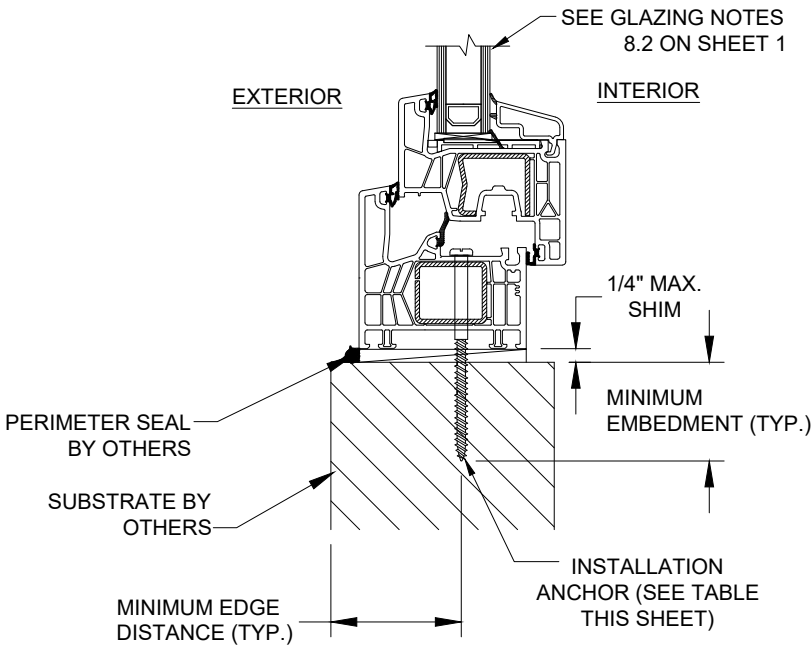
ROBERT J. AMORUSO
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ORLANDO, FL 32828
robert.amoruso@comcast.net

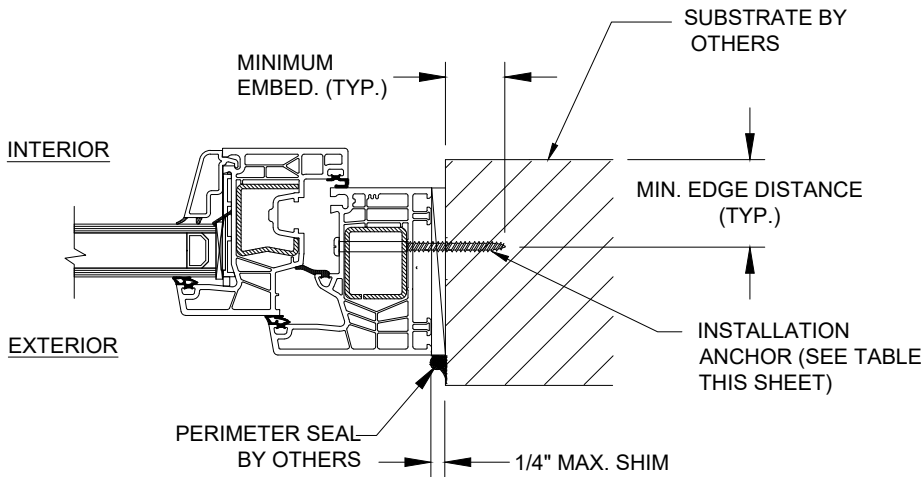
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
7 **ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD**



A
7 **ANCHOR DETAIL
THROUGH FRAME
FRAME SILL**



C
7 **ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB**

INSTALLATION ANCHOR REQUIREMENTS TABLE					
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SERIES 76MD TILT-TURN WINDOW VINYL NON-IMPACT ANCHOR DETAIL-THROUGH FRAME		
DRAWN: JRM	DWG NO. NL-0137	REV -
SCALE NTS	DATE 03/01/2020	SHEET 7 OF 8

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