

KOMMERLING USA, INC.

SERIES 88 FIXED WINDOW
VINYL NON-IMPACT

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) EXCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO AAMA/WDMA/CSA 101/I.S.2/A440-11 DOCUMENTED IN TEST REPORT NO. PRI-2569T0002.
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 E1300-16.

8.2. SEE GLAZING DETAILS ON SHEET 5 OF 5.

8.3. THE IGU WAS SET FROM THE INTERIOR, ONTO EPDM GLAZING GASKETS AND SECURED IN PLACE WITH VINYL GLAZING BEADS. THE INTERIOR EPDM CAP WAS SEALED WITH SILICONE SEALANT.

8.4. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.

9. PANEL OPERABILITY DESIGNATIONS:

9.1. WINDOW IS AN STATIONARY PANEL (0).

ANCHOR NOTES:

1. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" ITW ADVANCED THREADFORM TAPCONS, HEX HEAD (SHOWN) OF FLAT HEAD WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING. SEE NOTE 4 FOR ACCEPTABLE ALTERNATE ANCHOR TYPE FOR THROUGH FRAME INSTALLATION.

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

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS, PAN HEAD (SHOWN) OR FLAT HEAD PER (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. SEE NOTE 4 FOR ACCEPTABLE ALTERNATE ANCHOR TYPE FOR THROUGH FRAME INSTALLATION.
4. FOR ANCHORING THROUGH FRAME INTO MASONRY, CONCRETE OR WOOD FRAMING OR 2X WOOD BUCK, THE WURTH AMO III SPACING ASSEMBLY SCREW 7.5mm DIA. TYPE 2 CYLINDER HEAD GALVANIZED STEEL WITH MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE BELOW CAN BE USED AS SUBSTITUTES TO ANCHORS IN ITEM NO. 2 AND 3 ABOVE.

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

4.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2-1/2" MINIMUM EDGE DISTANCE.

4.3. WOOD SUBSTRATE: 2-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2-1/2" MINIMUM EDGE DISTANCE.

4.4. THESE ANCHORS SUPPLIED BY KOMMERLING WITH DOOR ASSEMBLY (ITEM NO. 11 IN BOM).
5. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

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

5.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

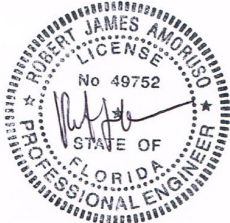
5.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL AND INSTALLATION NOTES
2	ELEVATION AND ANCHOR LAYOUTS
3 & 4	ANCHOR DETAILS
5	BILL OF MATERIALS AND GLAZING DETAIL

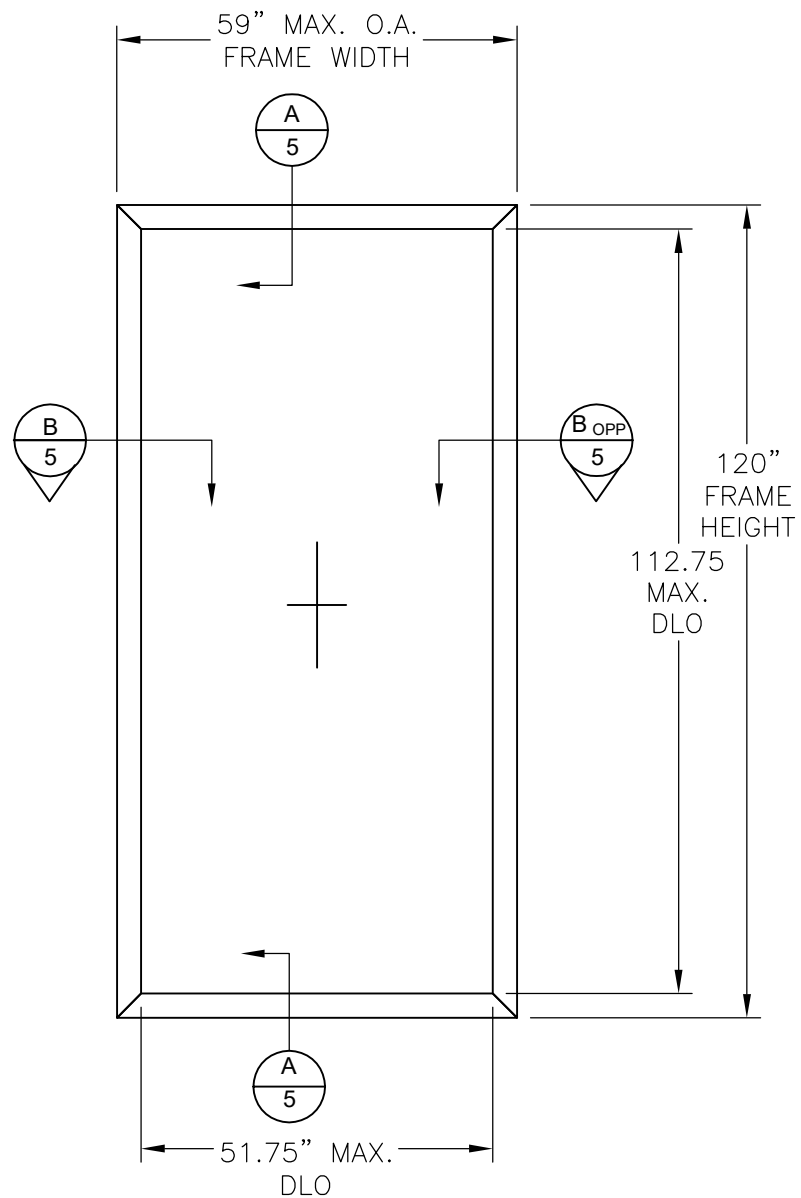
REV	DESCRIPTION	DATE	BY

KOMMERLING USA, INC. 3415-A STANWOOD BLVD. NE. HUNTSVILLE, AL 35811	TITLE: SERIES 88 FIXED WINDOW GENERAL AND INSTALLATION NOTES	DRAWN BY:	JRM	DATE:	12/08/23
		SCALE:	N.T.S.	DRAWING NO:	SC-0021
		REV:	-	SHEET:	1 OF 5

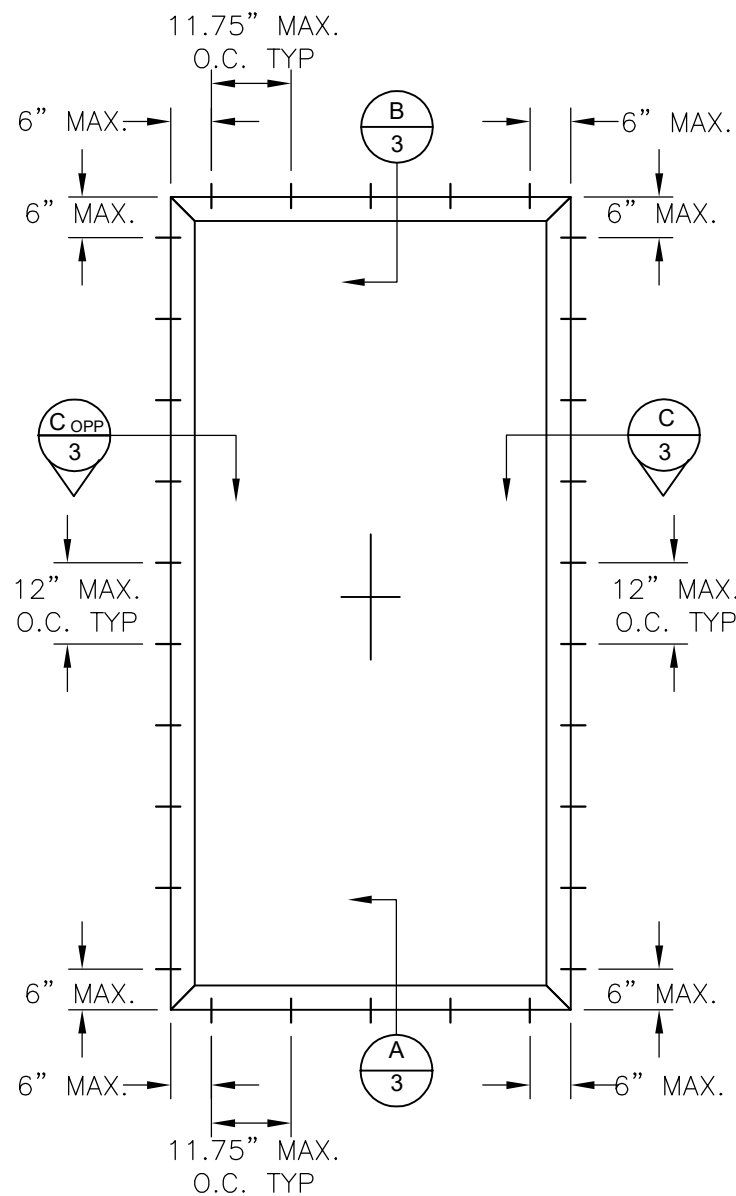
ROBERT J. AMORUSO
FL. P.E. NO. 49752



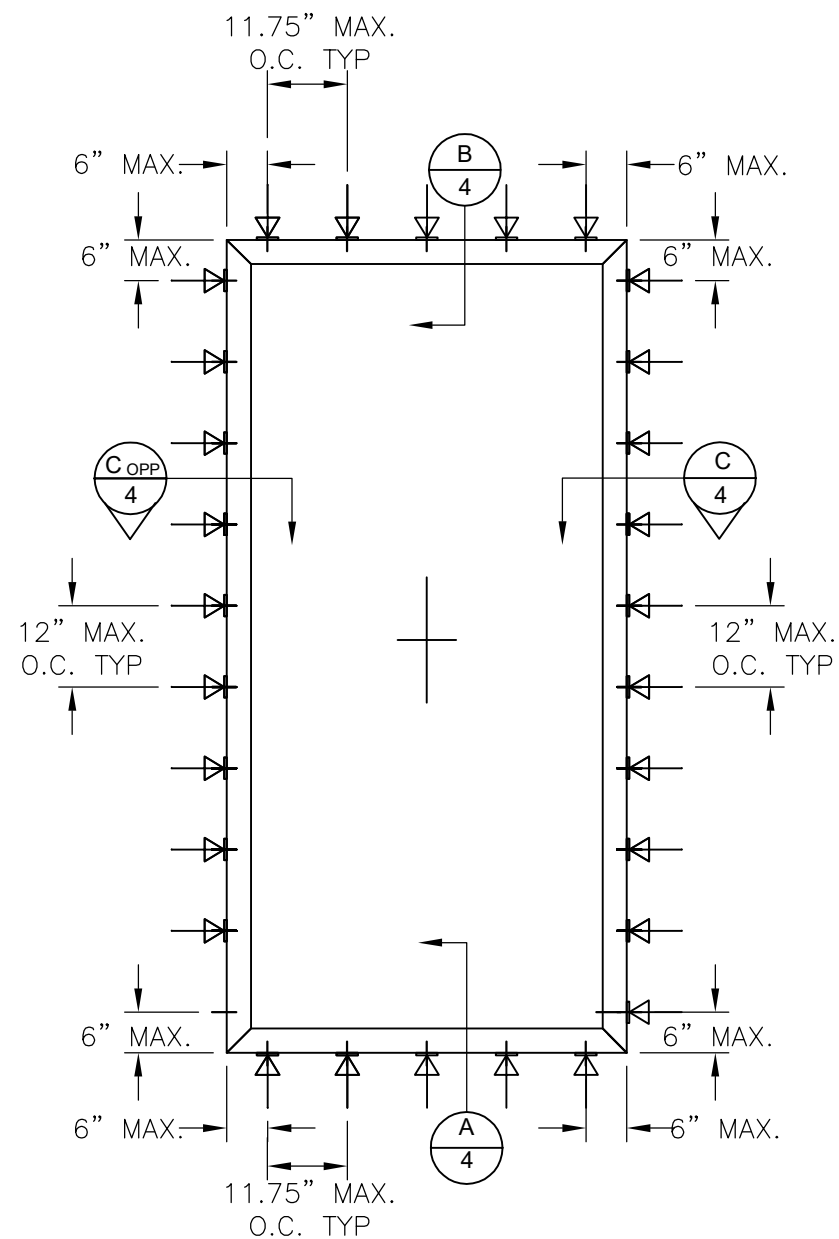
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by Robert J
Amoruso
Date: 2024.01.19
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226 N. Nova Rd., #142
ORMOND BEACH, FL 32174
rjaengpe@gmail.com



ELEVATION LAYOUT
PICTURE WINDOW



ANCHOR LAYOUT
THROUGH FRAME
INSTALLATION



ANCHOR LAYOUT
ANCHOR CLIP
INSTALLATION



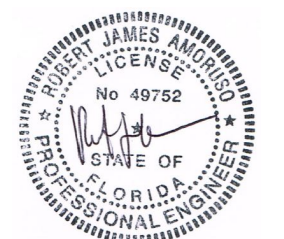
DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING
59" X 120"	+/- 40.0 PSF	0	NONE
SEE GLAZING DETAIL 1 ON SHT. 5			

MAXIMUM SIZES (IN)	
FRAME	59" X 120"
D.L.O.	51.750" X 112.75"

REV	DESCRIPTION	DATE	BY

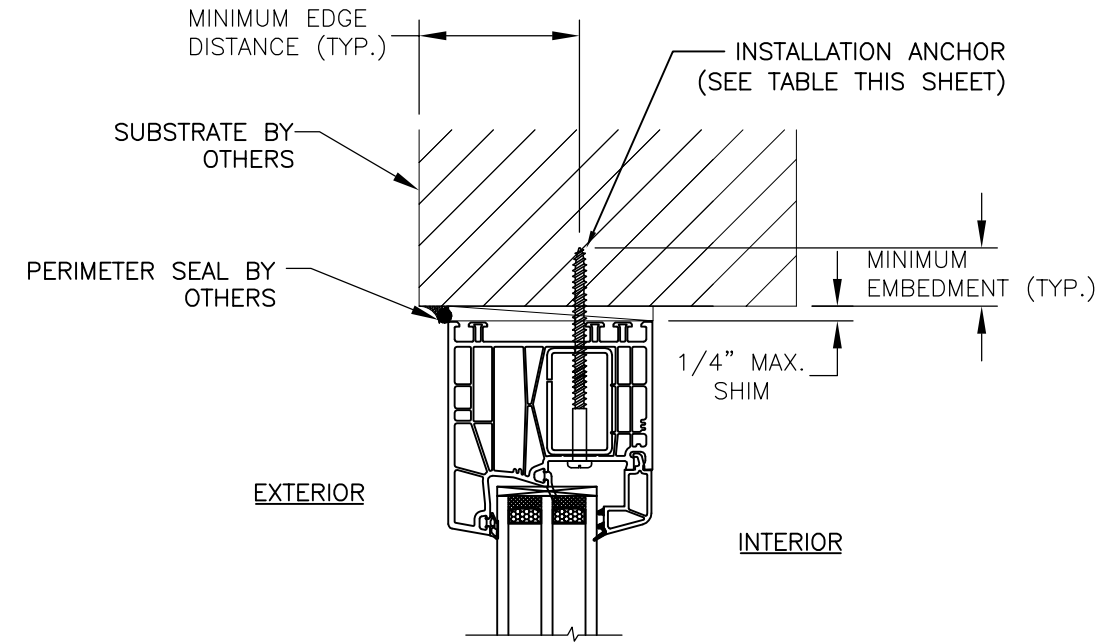
KOMMERLING USA, INC. 3415-A STANWOOD BLVD. NE. HUNTSVILLE, AL 35811 TITLE: SERIES 88 FIXED WINDOW ELEVATION AND ANCHOR LAYOUTS	DRAWN BY:	JRM
	SCALE:	N.T.S.
	DATE:	12/08/23
	DRAWING NO:	SC-0021
SHEET:		2 OF 5

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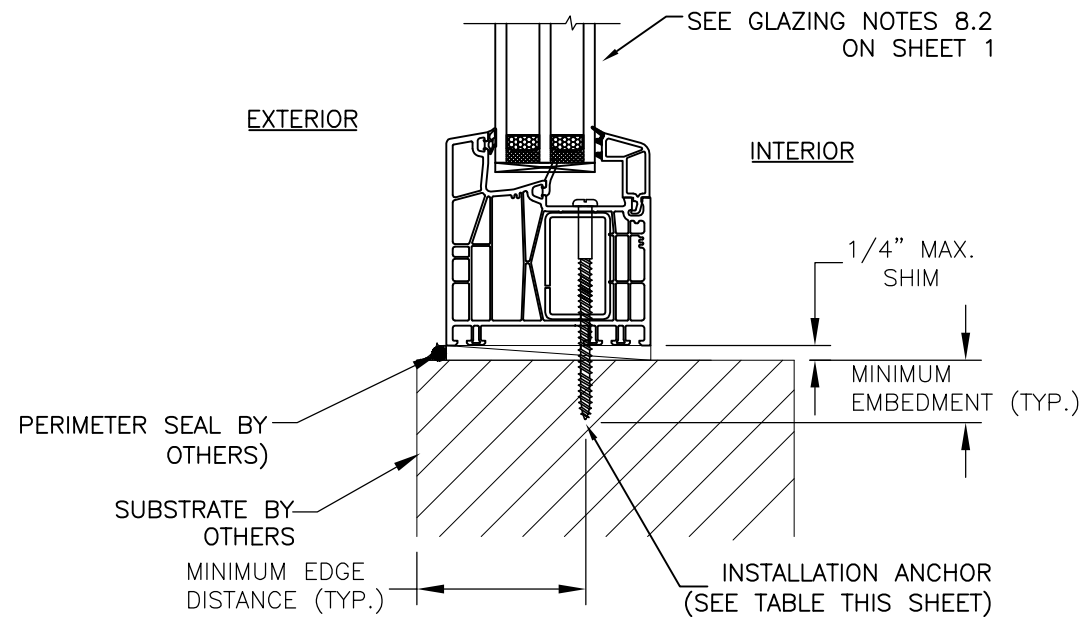


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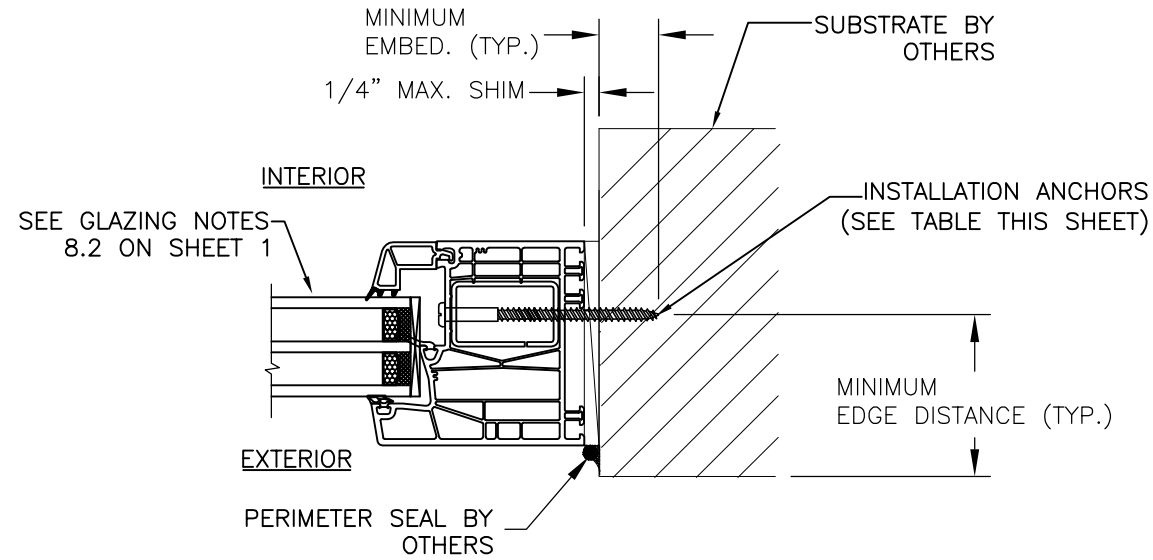
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B
3 **ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD**



A
3 **ANCHOR DETAIL
THROUGH FRAME
FRAME SILL**



C
3 **ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB**

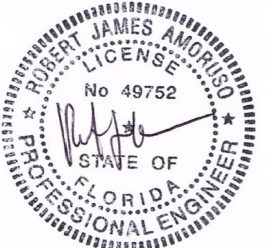
INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1"
	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	7.5MM CYLINDER HEAD SCREW	2-3/8	2-1/2
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CONCRETE	2500 PSI MIN. CONCRETE	7.5MM CYLINDER HEAD SCREW	1-1/2	2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	7.5MM CYLINDER HEAD SCREW	1	2-1/2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			
	3)	ALTERNATE CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE WURTH AMO III 7.5mm DIA TYPE 2 CYLINDER HEAD GALVANIZED STEEL SCREW.			
	4)	ALTERNATE WOOD FRAME SUBSTRATE ANCHORS TO BE WURTH AMO III 7.5mm DIA TYPE 2 CYLINDER HEAD GALVANIZED STEEL SCREW.			

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

TITLE: SERIES 88 FIXED WINDOW
ANCHOR DETAILS-THROUGH FRAME

DRAWN BY:	JRM	DATE:	12/08/23
SCALE:	N.T.S.	DRAWING NO:	SC-0021
REV:	-	SHEET:	3 OF 5

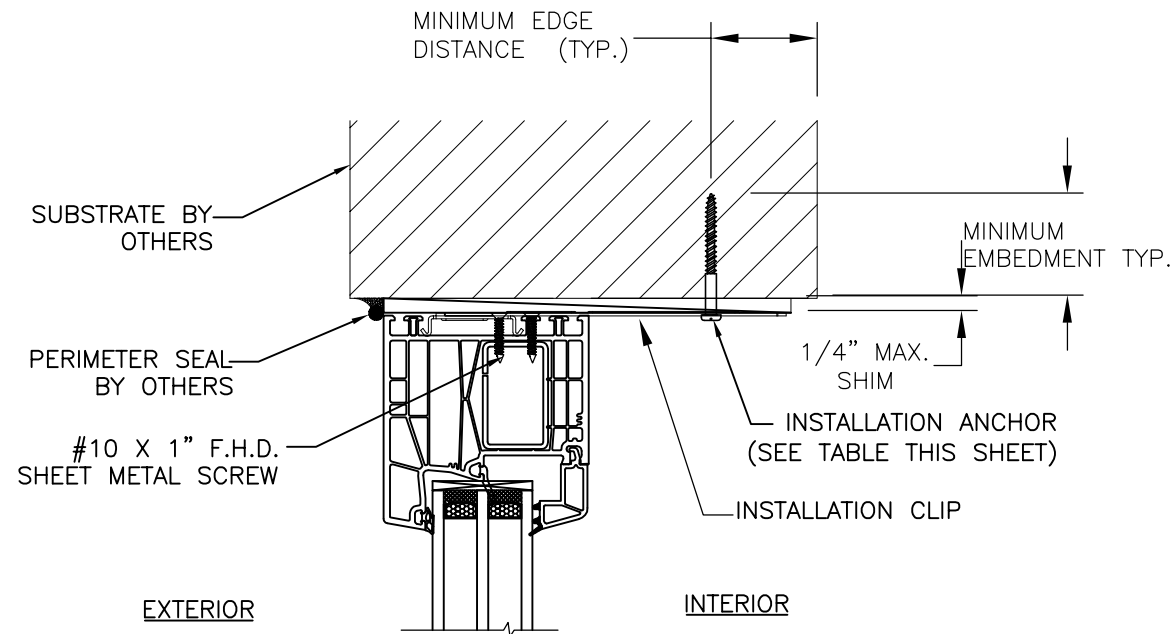
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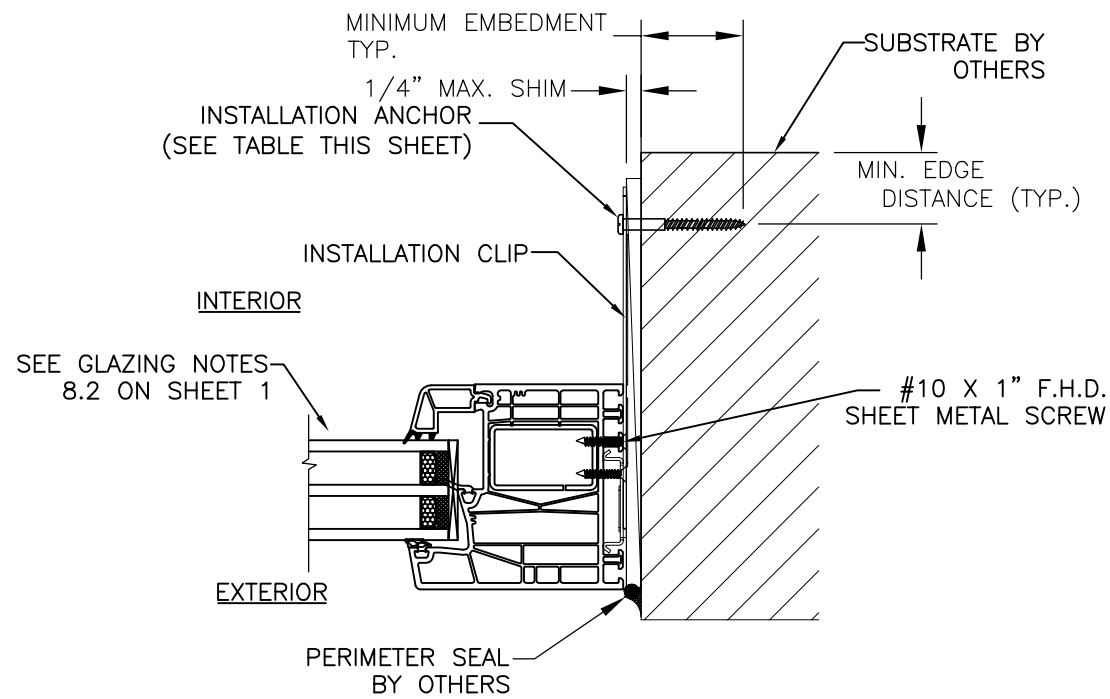
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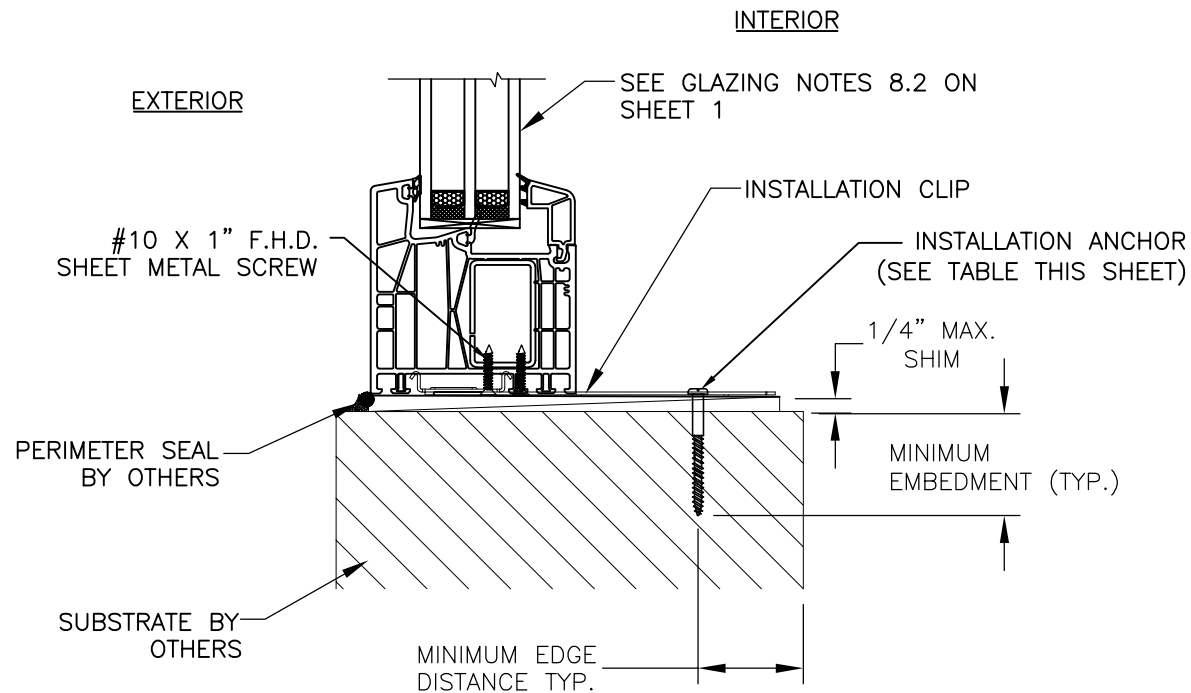
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B
4 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME HEAD



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

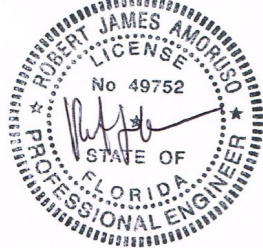


A
4 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME SILL

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH STRAP	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#14 WOOD SCREW	1-1/2	1"
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 14 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

TITLE:	KOMMERLING USA, INC. 3415-A STANWOOD BLVD. NE. HUNTSVILLE, AL 35811			DATE:	12/08/23	
	SERIES 88 FIXED WINDOW ANCHOR DETAILS-ANCHOR CLIP			DRAWN BY:	JRM	
				SCALE:	N.T.S.	
				REV:	-	
					SHEET:	4 OF 5

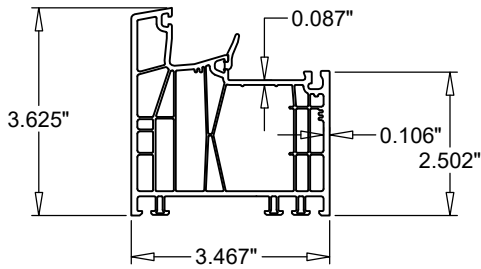
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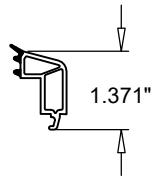
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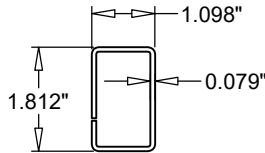
QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	88172	MAIN FRAME HEAD, JAMB & SILL UPVC	PROFINE
2	2640	35 MM GLAZING BEAD, UPVC	PROFINE
3	V-308	FRAME GALV. STL. REINFORCEMENT	PROFINE
4	-	DRAINAGE CAP, UPVC/VINYL	PROFINE
5	-----	GLAZING GASKET EPDM RUBBER	PURCHASE
6	S041	ANCHOR STRAP, 16 GA. GALVANIZED STEEL	PROFINE
7	577174	ANCHOR BENT STRAP, 16 GA. GALV. STEEL	SIMPSON
8	-----	#10 x 1" F.H.D. S.M.S.	PURCHASE
9	-----	#14 PH WOOD SCREW	PURCHASE
10	-----	1/4" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
11	-----	7.5 MM DIAM. TYPE 2 CYL. HEAD ANCHOR	PURCHASE



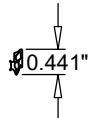
① MAIN FRAME HEAD/JAMB/SILL
EQUAL LEG UPVC / VINYL-88172



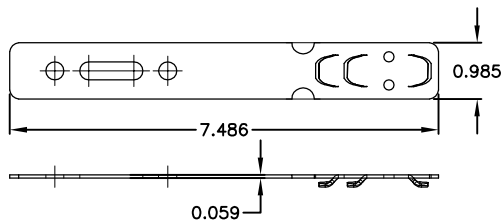
② 35 MM GLAZING BEAD
UPVC / VINYL-2640



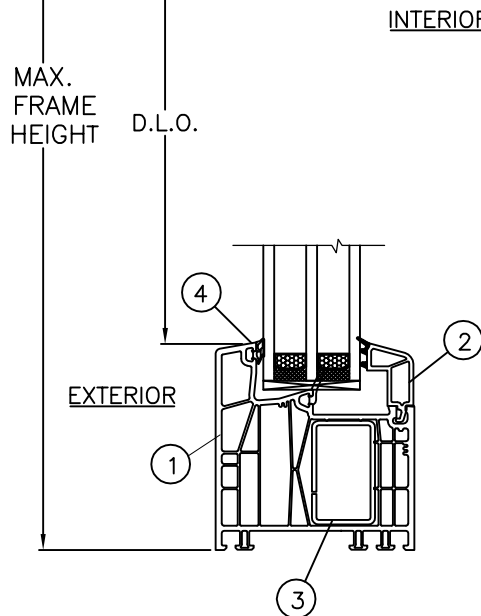
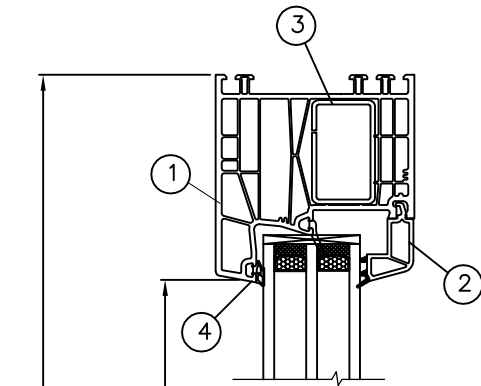
③ MAIN FRAME REINFORCEMENT
GALVANIZED STEEL-V308



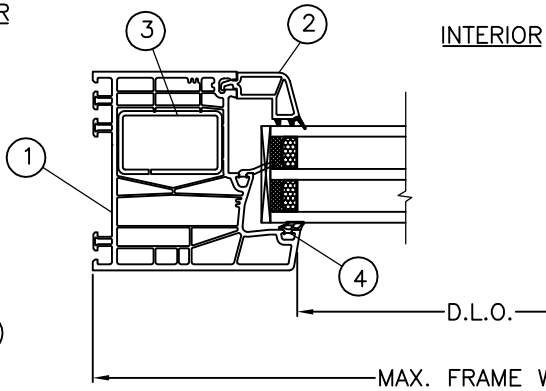
⑤ GLAZING GASKET
EPDM RUBBER



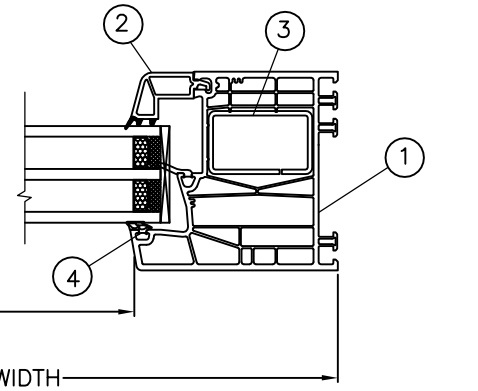
⑥ ANCHOR STRAP
GALVANIZED STEEL, 16 GA.



A
5
VERTICAL SECTION

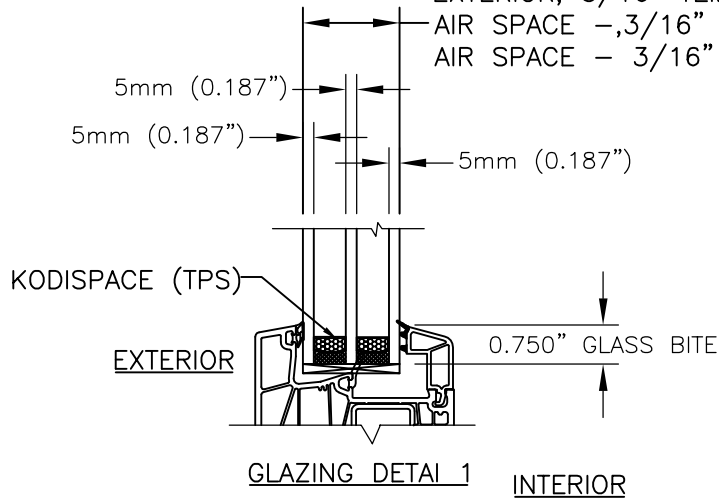


B
5
HORIZONTAL SECTION
FRAME JAMB



BOPP
5
HORIZONTAL SECTION
FRAME JAMB

38mm (1.50") O.A. TRIPLE INSULATED
GLASS CONSISTING OF:
EXTERIOR, 3/16" TEMP. GLASS -
AIR SPACE - 3/16" TEMP. GLASS -
AIR SPACE - 3/16" TEMP. GLASS, INNER



INSTALLATION 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".

REV	DESCRIPTION	DATE	BY

KOMMERLING USA, INC. 3415-A STANWOOD BLVD. NE. HUNTSVILLE, AL 35811 TITLE: SERIES 88 FIXED WINDOW BILL OF MATERIALS & GLAZING DETAIL	DRAWN BY:	JRM	DATE:	12/08/23
	SCALE:	N.T.S.	DRAWING NO.:	SC-0021
	REV:	-	SHEET:	5 OF 5

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