

M.P. WINDOWS INC.
SERIES IMPACT MP-SH100 ALUMINUM
SINGLE HUNG LARGE MISSILE IMPACT

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

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 THE FOLLOWING TEST STANDARDS:
AAMA/WDMA/CSA 101/I.S.2/A440/NAFS-17, AAMA/WDMA/CSA 101/I.S.2/A440/NAFS-11, ASTM E 1886-12/13a, ASTM E 1996-12a/14a DOCUMENTED IN TEST REPORT NO. NCTL-210-4209-1
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 NOT BE REQ'D.
7. MATERIALS:
FRAME: ALUMINUM 6063-T5
8. GLAZING:

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

8.2. SEE GLAZING DETAILS ON SHEET 3 OF 6.

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).

9.2. WINDOW IS AN STATIONARY PANEL (O).

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. 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 #10 WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE.
4. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2 BY BUCK USE #10 WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE.
5. FOR ANCHORING THROUGH NAIL FIN INTO WOOD FRAMING OR 2 BY BUCK USE #10 WOOD SCREWS (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE.
6. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

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

6.2 CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

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

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3	VERTICAL, HORIZONTAL SECTIONS & GLAZING DETAIL
4-5	ANCHOR DETAILS
6	BILL OF MATERIALS AND COMPONENTS

M.P. WINDOWS, INC.
407 RIVER HEIGHTS CIRCLE
ANDERSON, SC 29621

SERIES IMPACT MP-SH100
ALUMINUM SINGLE HUNG WINDOW
GENERAL NOTES

DRAWN:
JRM

DWG NO.
NL-0140

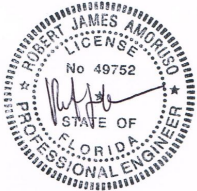
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SCALE
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DATE
03/02/2021

SHEET
1 OF 8

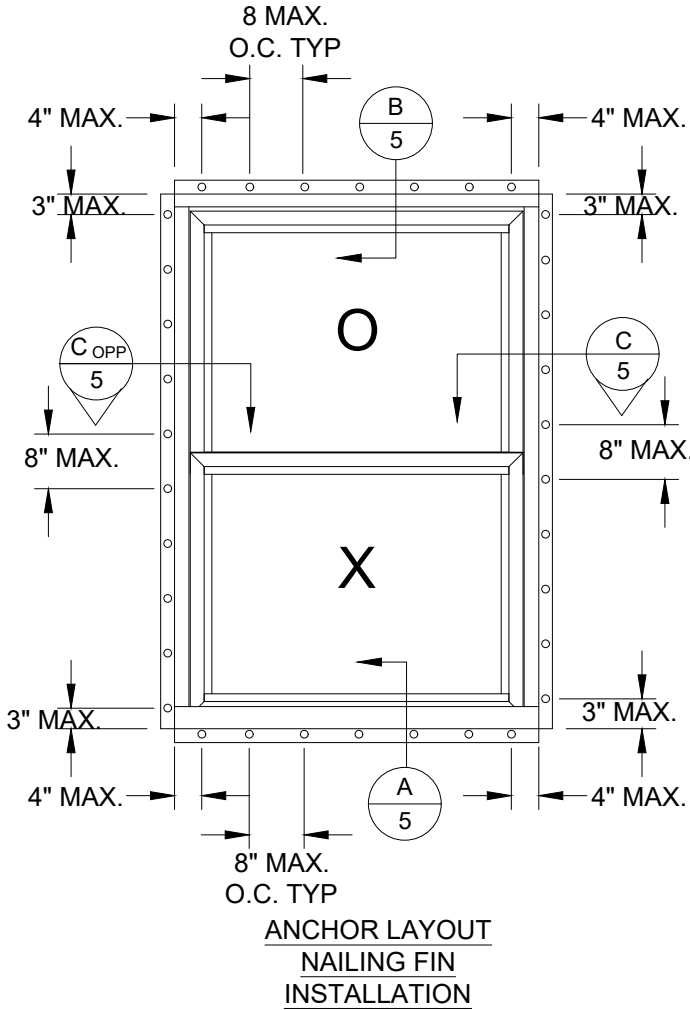
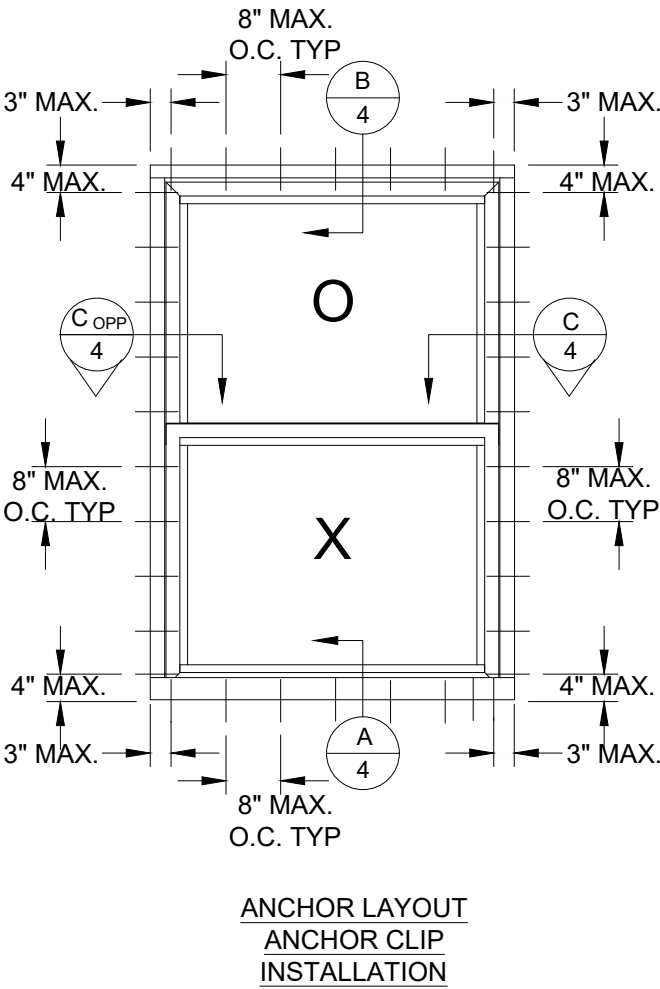
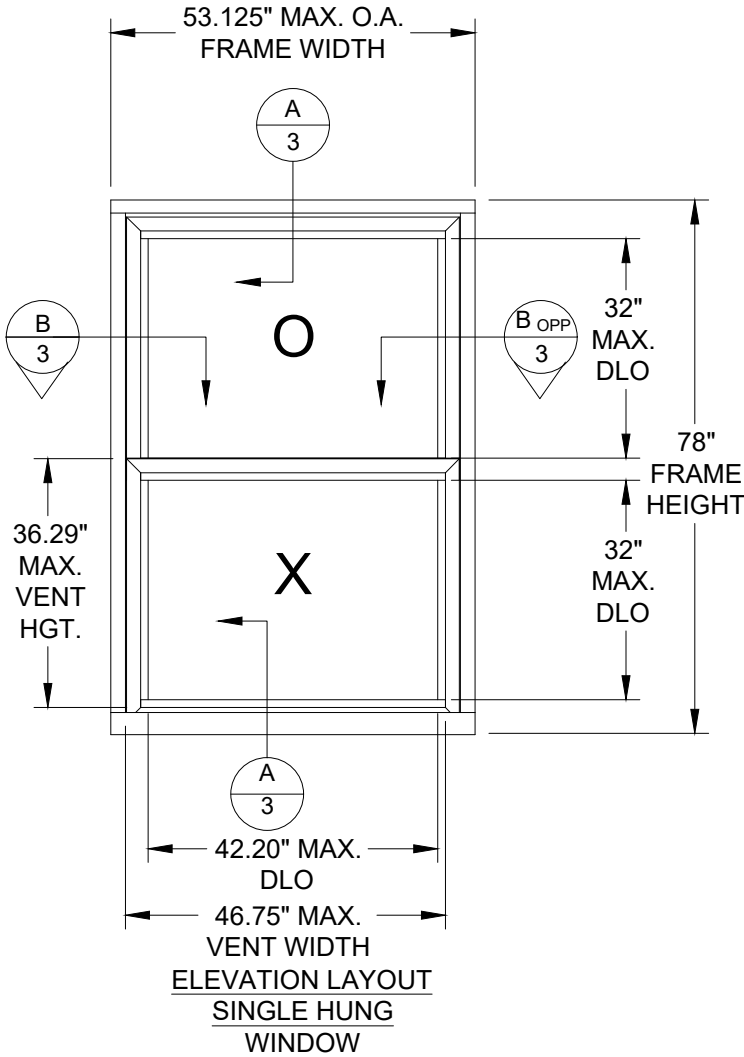
ROBERT J. AMORUSO
FL. P.E. NO. 49752



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734 S CENTER ST.
ORMOND BEACH, FL 32174
rjaengpe@gmail.com

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DESIGN PRESSURE RATING (PSF)			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF)	QUALIFIED CONFIGURATION	IMPACT RATING WIND ZONE 3
53.125" X 78"	+/- 55.0 PSF	O/X	LARGE MISSILE
SEE GLAZING DETAIL ON SHT. 3			

MAXIMUM SIZES (IN)	
FRAME	53.125 X 78
VENT	46.75 X 36.29
D.L.O	42.20 X 32

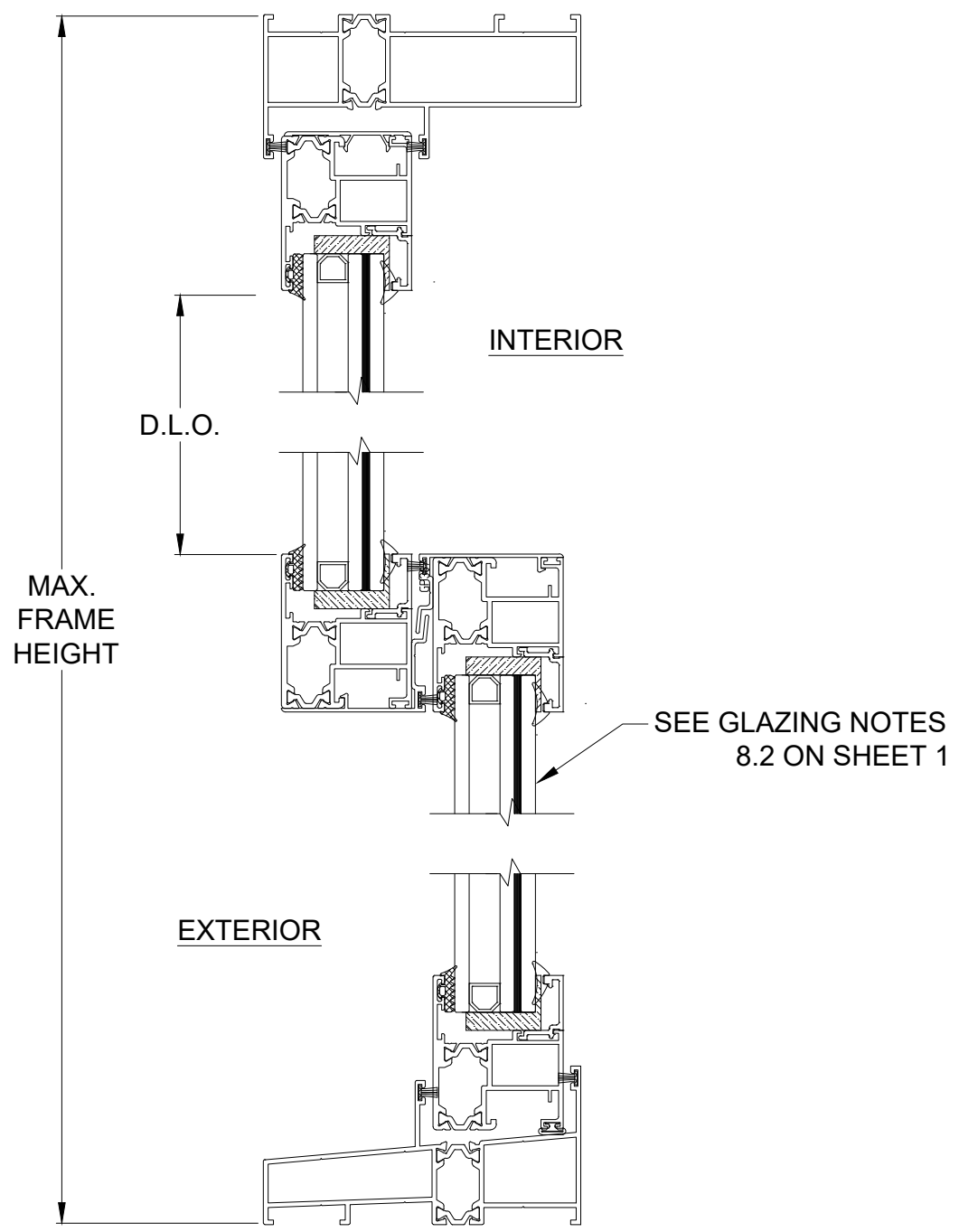
M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-SH100 ALUMINUM SINGLE HUNG WINDOW ELEVATION & ANCHOR LAYOUT		
DRAWN: JRM	DWG NO. NL-0140	REV -
SCALE NTS	DATE 03/02/2021	SHEET 2 OF 6

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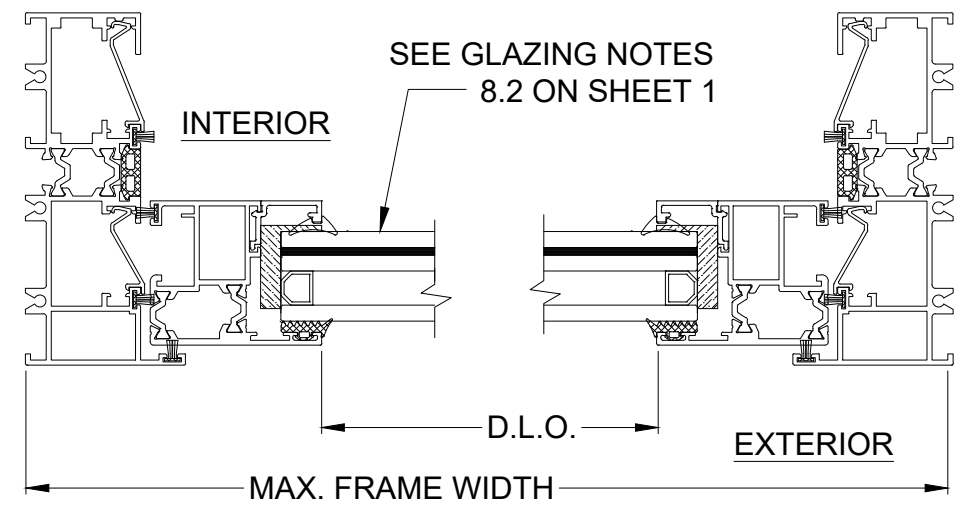
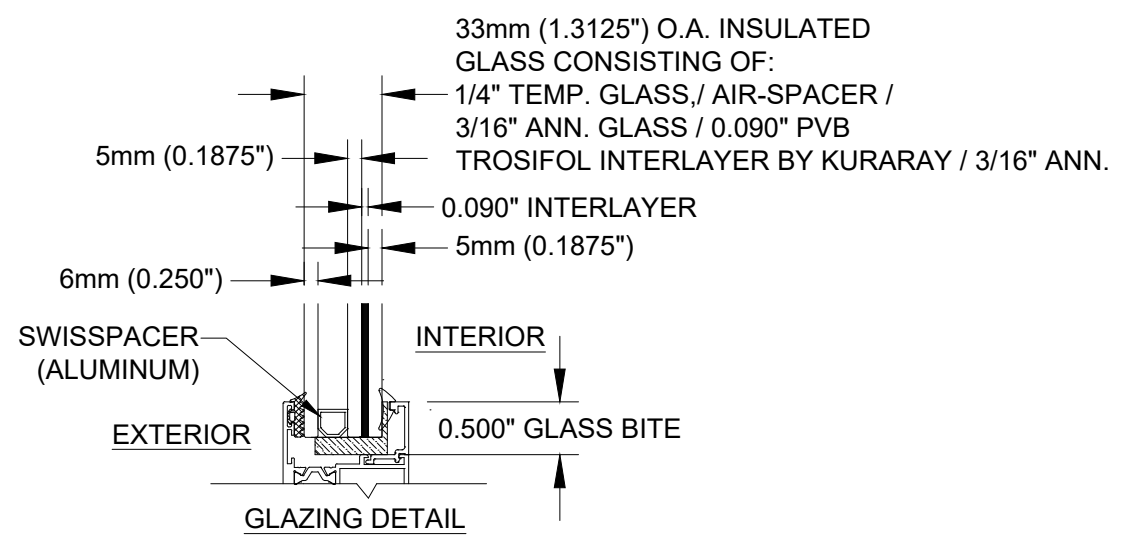
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A
3 VERTICAL SECTION



B
3 HORIZONTAL SECTION
FRAME JAMB

BOPP
3 HORIZONTAL SECTION
FRAME JAMB

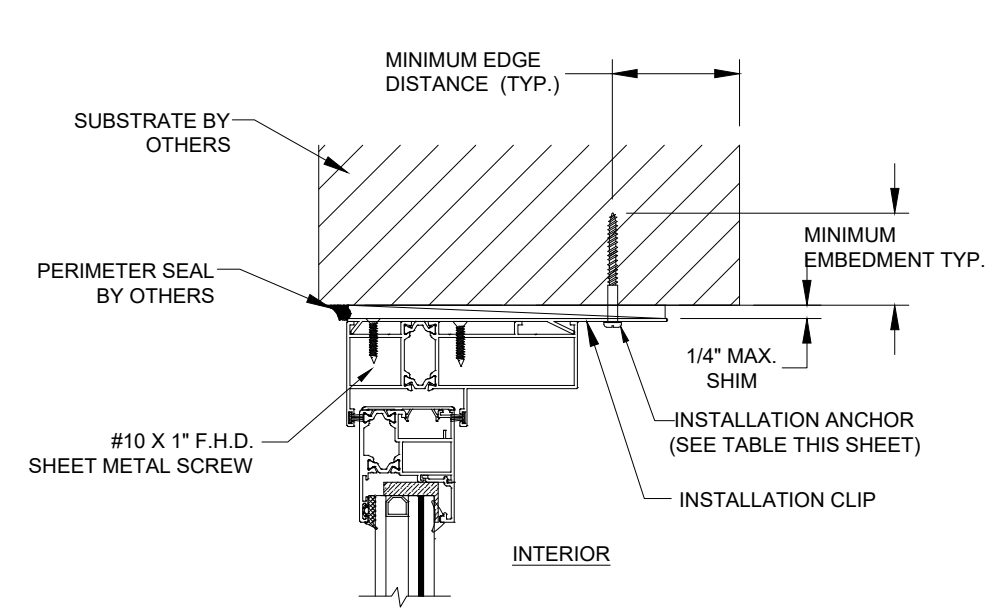
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DRAWN: JRM	DWG NO. NL-0140	REV -
SCALE NTS	DATE 03/02/2021	SHEET 3 OF 6

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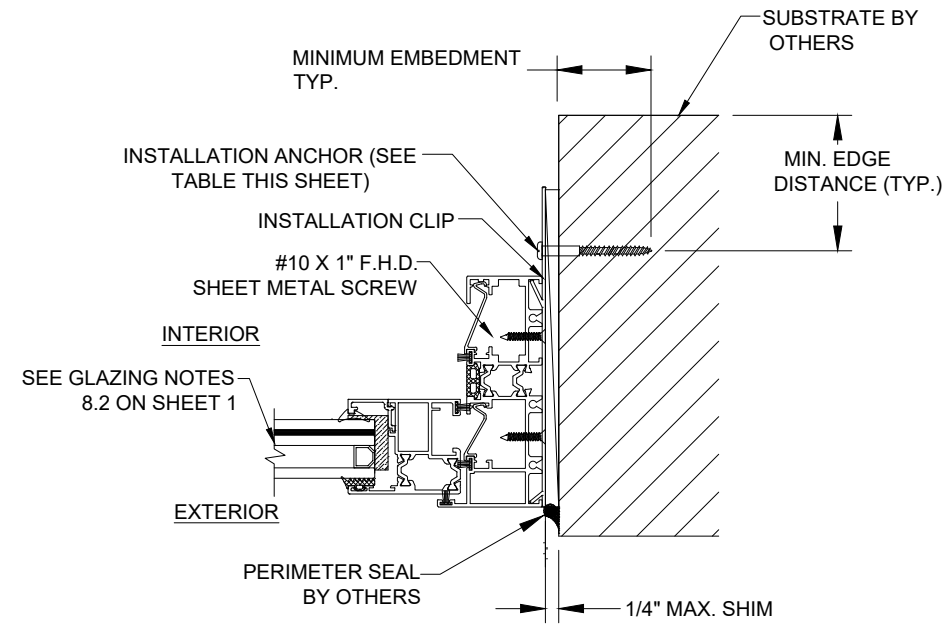
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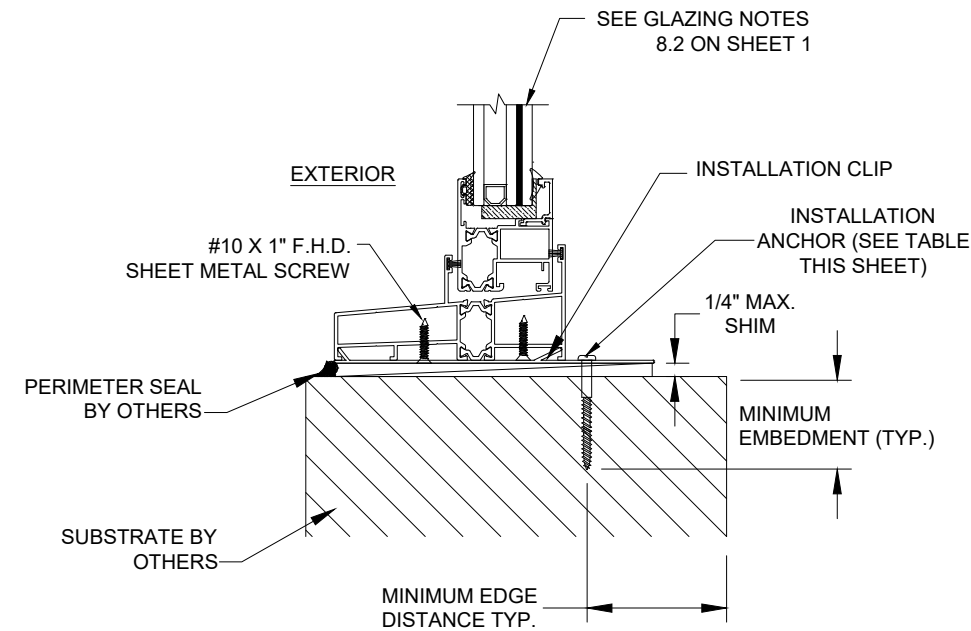
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B
4 **ANCHOR DETAIL**
INSTALLATION CLIP
FRAME HEAD



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



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

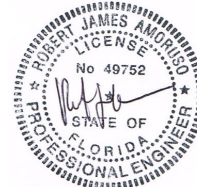
INSTALLATION ANCHOR REQUIREMENTS TABLE						
ANCHOR REQUIREMENTS						
ANCHORING METHOD		SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
ANCHOR STRAP		WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#10 WOOD SCREW	1-3/8	3/4"
		CONCRETE	2500 PSI MIN. CONCRETE	3/16 ITW TAPCON	1-1/2	1-1/8
		CMU	ASTM 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 CONCRETE SCREWS.				
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 10 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.				

M.P. WINDOWS, INC.
407 RIVER HEIGHTS CIRCLE
ANDERSON, SC 29621

SERIES IMPACT MP-SH100
ALUMINUM SINGLE HUNG WINDOW
ANCHOR DETAILS- INSTALLATION CLIP

DRAWN: JRM	DWG NO. NL-0140	REV -
SCALE NTS	DATE 03/02/2021	SHEET 4 OF 6

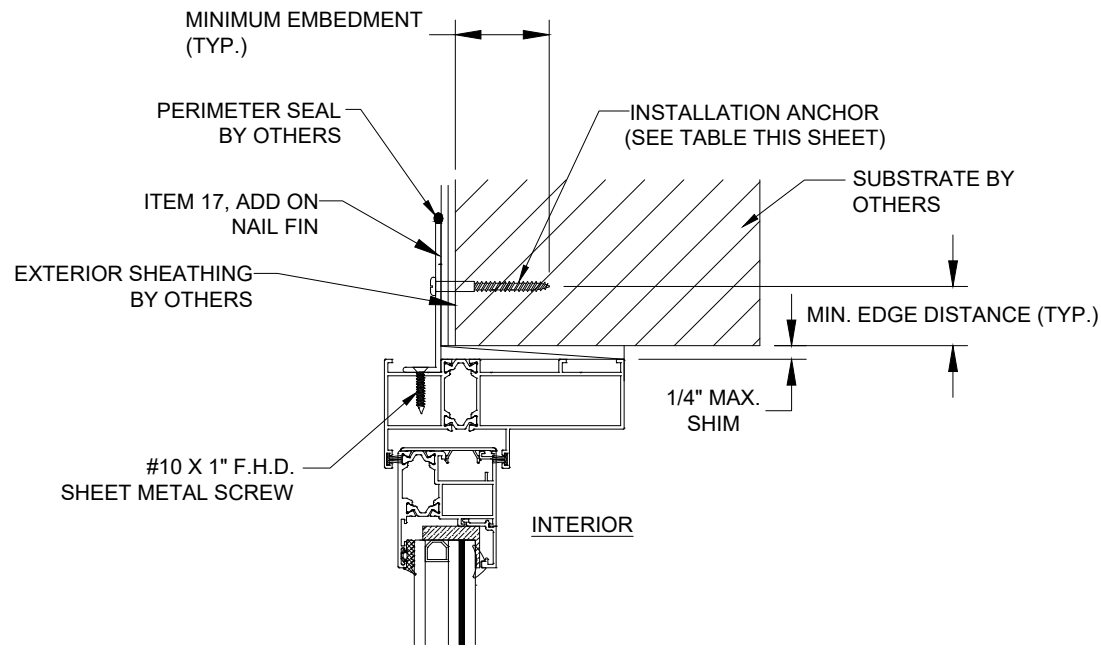
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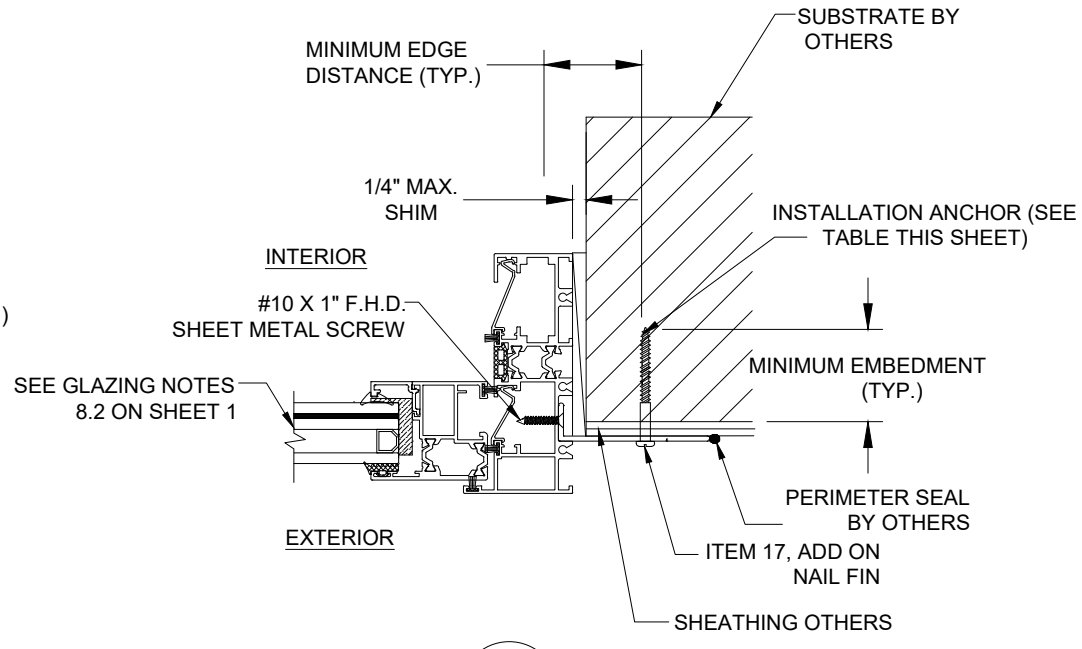
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rjaengpe@gmail.com

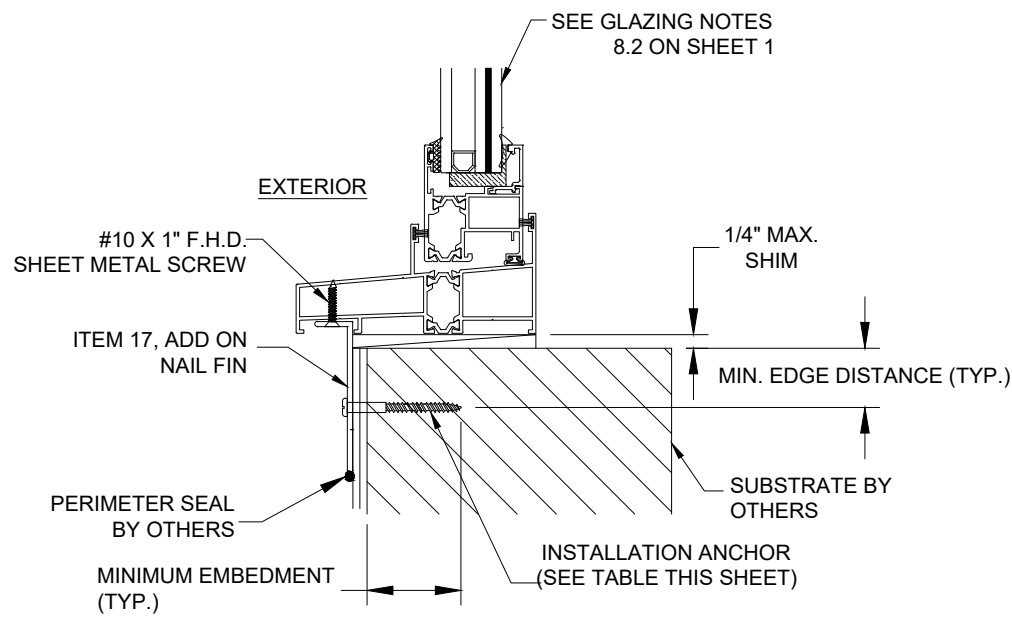
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



B
5 **ANCHOR DETAIL**
NAILING FIN
FRAME HEAD



C
5 **ANCHOR DETAIL**
NAILING FIN
FRAME JAMB



A
5 **ANCHOR DETAIL**
NAILING FIN
FRAME SILL

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH NAIL FIN	WOOD	MIN. 0.42 S.G. (NON-HVHZ)	#10 WOOD SCREW	1-3/8	3/4"
NOTES:	1)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 10 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-SH100 ALUMINUM SINGLE HUNG WINDOW ANCHOR DETAIL-NAIL FIN INSTALLATION		
DRAWN: JRM	DWG NO. NL-0140	REV -
SCALE NTS	DATE 03/01/2021	SHEET 5 OF 6

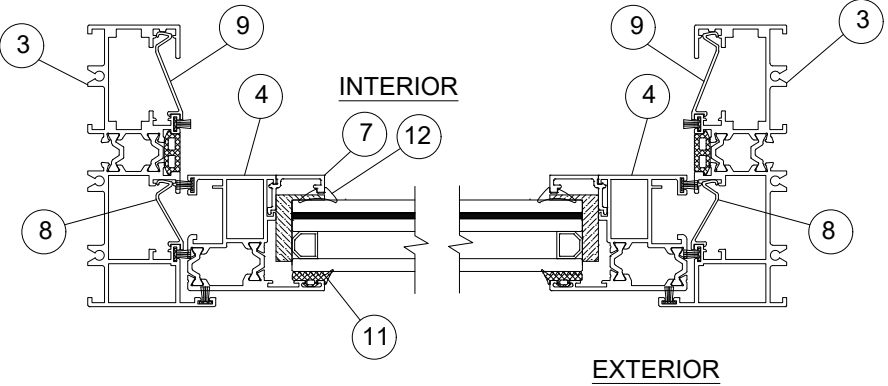
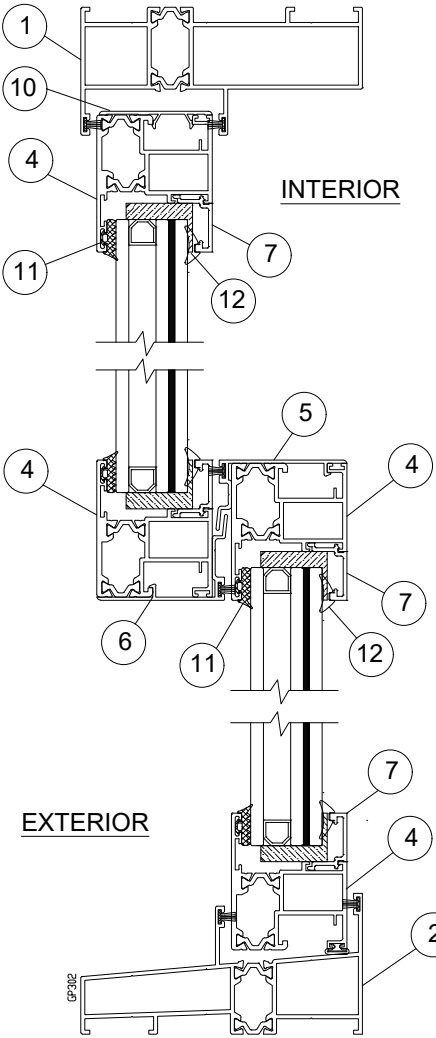
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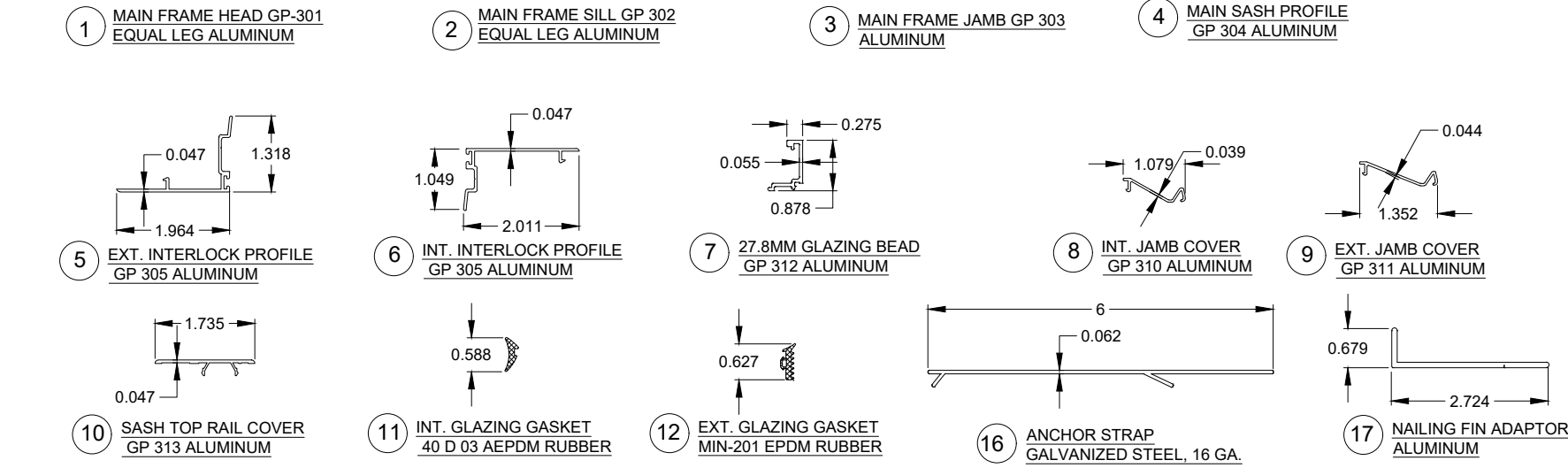
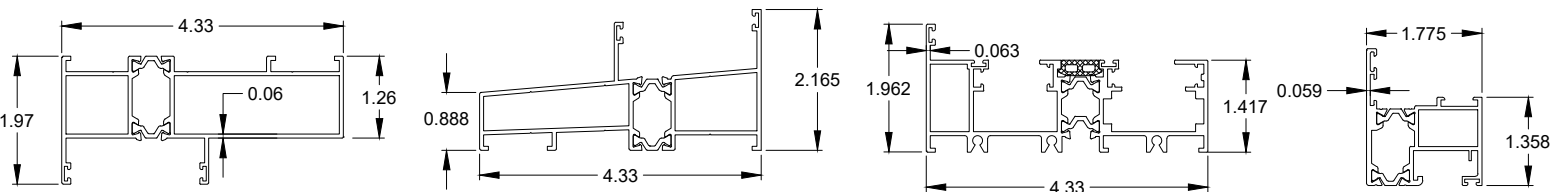
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QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	GP 301	MAIN FRAME HEAD, ALUMINUM	KASA UST PROFILI
2	GP 302	MAIN FRAME SILL, ALUMINUM	KASA UST PROFILI
3	GP 303	MAIN FRAME JAMB, ALUMINUM	KASA UST PROFILI
4	GP 304	SASH TOP, BOTTOM, RAILS AND INTERLOCK, ALUM.	KASA UST PROFILI
5	GP 305	EXTERIOR INTERLOCK ADAPTOR, ALUMINUM	KASA UST PROFILI
6	GP 306	INTERIOR INTERLOCK ADAPTOR, ALUMINUM	KASA UST PROFILI
7	GP 312	27.8 MM GLAZING BEAD, ALUMINUM	KASA UST PROFILI
8	GP 310	JAMB COVER, ALUMINUM	KASA UST PROFILI
9	GP 311	COVER, ALUMINUM	KASA UST PROFILI
10	GP 313	SASH TOP RAIL COVER, ALUMINUM.	KASA UST PROFILI
11	4 D 02	EXTERIOR GLAZING GASKET, EPDM RUBBER	DIS CAM FIT
12	MIN-201	INTERIOR GLAZING GASKET, EPDM RUBBER	DIS CAM FIT
13	-----	#10 PH S.M.S.	PURCHASE
14	-----	#10 PH WOOD SCREW	PURCHASE
15	-----	3/16" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
16	-----	ANCHOR STRAP, 16 GA. GALVANIZED STEEL	PURCHASE
17	-----	NAILING FIN ADD-ON, ALUMINUM	PURCHASE



TYPICAL CROSS SECTION FOR PARTS IDENTIFICATION EQUAL LEG FRAME



M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-SH100 ALUMINUM SINGLE HUNG WINDOW BILL OF MATERIALS & COMPONENTS		
DRAWN: JRM	DWG NO. NL-0140	REV -
SCALE NTS	DATE 03/01/2021	SHEET 6 OF 6

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FL. P.E. NO. 49752



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rjaengpe@gmail.com