

M.P. WINDOWS INC.
SERIES IMPACT MP-4500 A/B 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/A440-17, AAMA/WDMA/CSA 101/I.S.2/A440-11, ASTM E 1886-12/13A, ASTM E 1996-12/14A DOCUMENTED IN TEST REPORT NO. NCTL-210-4254-1.
- 1.1. TEST REPORT NO. NCTL-210-4254-1 TEST SPECIMENS UTILIZED ALUMINUM EXTRUSIONS BY ALDOM EXTRUDERS.
- 1.2. NAMI WAIVER OF RETEST NO. W-2056 EVALUATED THE SUBSTITUTION OF ALUMINUM EXTRUSIONS BY BURAK EXTRUDERS AND FOUND THE SUBSTITUTION ACCEPTABLE. THE PRODUCT APPROVAL DOCUMENT INCLUDES BOTH EXTRUSION TYPES.
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.
- 6.1. IMPACT RATING: MISSILE LEVEL D, WIND ZONE 3.
7. MATERIALS:
- 7.1. FRAME: ALUMINUM 6063-T5
8. GLAZING:
- 8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.
- 8.2. SEE GLAZING DETAILS ON SHEETS 3 AND 4.
- 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).

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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 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.
4. 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).

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

SERIES IMPACT MP-4500 A/B
ALUMINUM SINGLE HUNG WINDOW
GENERAL NOTES & INSTALLATION NOTES

DRAWN:
JRM/RJA

DWG NO.
SCS-0019

REV
0

SCALE
NTS

DATE
10/21/2022

SHEET
1_OF_11

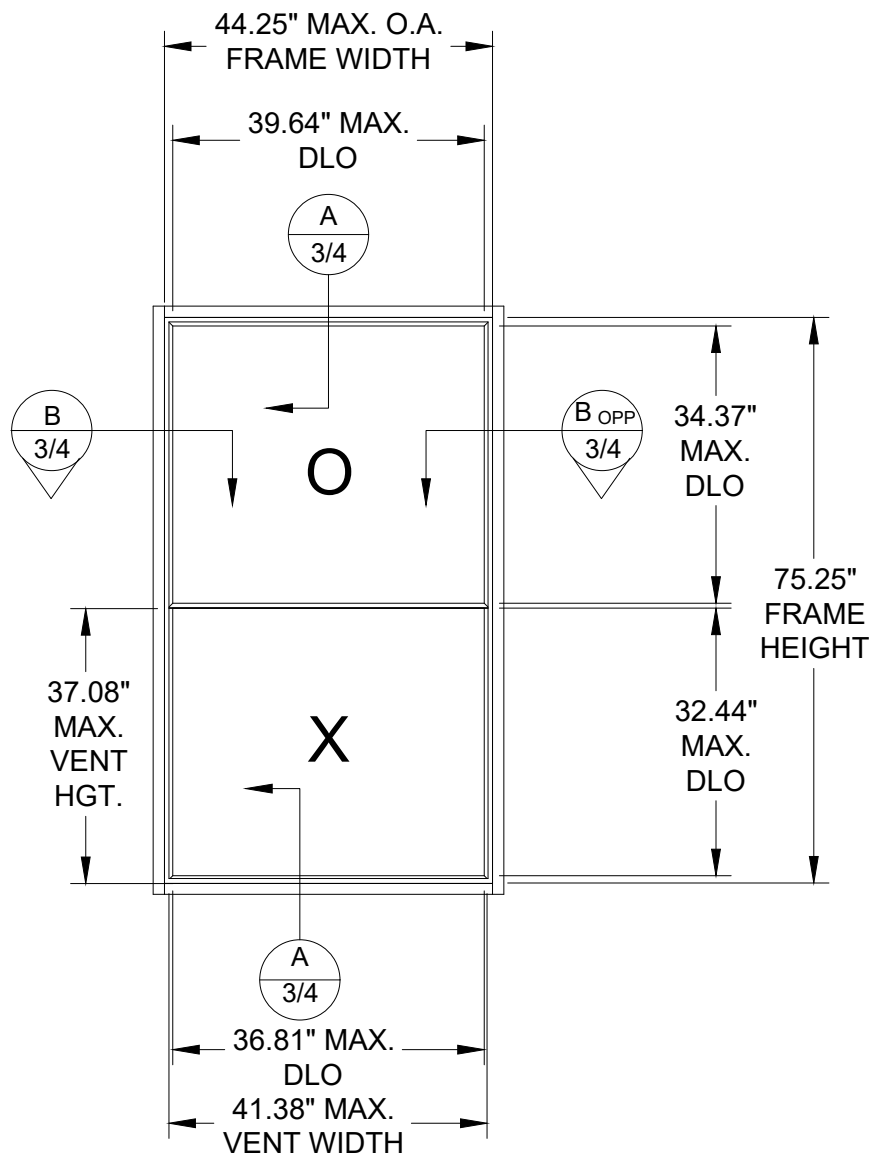
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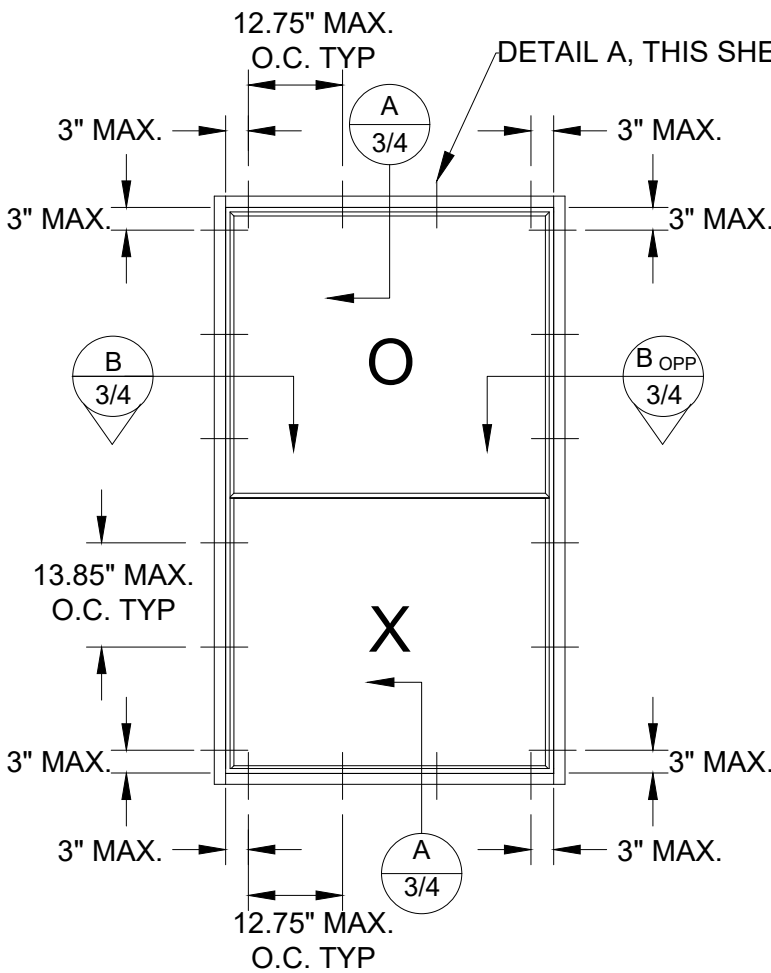
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REVISIONS			
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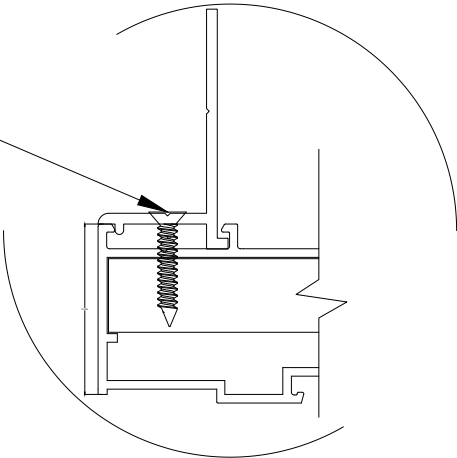


ELEVATION LAYOUT
SINGLE HUNG
WINDOW



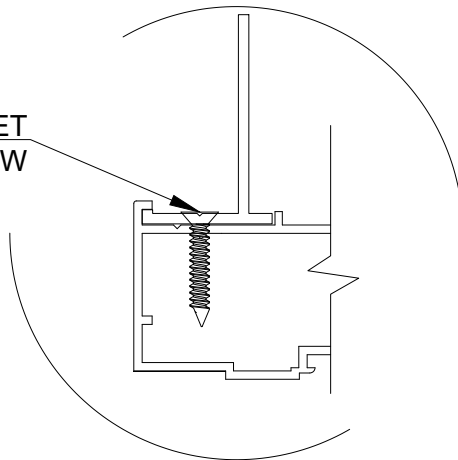
ANCHOR LAYOUT
NAIL FIN TO FRAME
ATTACHMENT LOCATIONS USING #10 SMS

#10 FH SHEET
METAL SCREW



DETAIL A - ALDOM EXTRUSION

#10 FH SHEET
METAL SCREW



DETAIL A - BURAK EXTRUSION

DESIGN PRESSURE RATING			
MAXIMUM OVERALL FRAME SIZE (IN)	MAXIMUM DESIGN PRESSURE (PSF)	CONFIGURATION	IMPACT RATING
44.25" X 75.25"	+/-65 PSF	O/X	MISSILE LEVEL D WIND ZONE 3

MAXIMUM SIZES (IN)	
FRAME	44.25 X 75.25
SASH	41.38 X 37.08
FIXED LITE DLO	39.64 X 34.37
SASH DLO	36.81 X 32.44
MAXIMUM SIZES ABOVE MAY VARY +/- 1"	

M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW ELEVATION LAYOUT, APPLIED FIN ANCHOR LAYOUT		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 2_OF_11

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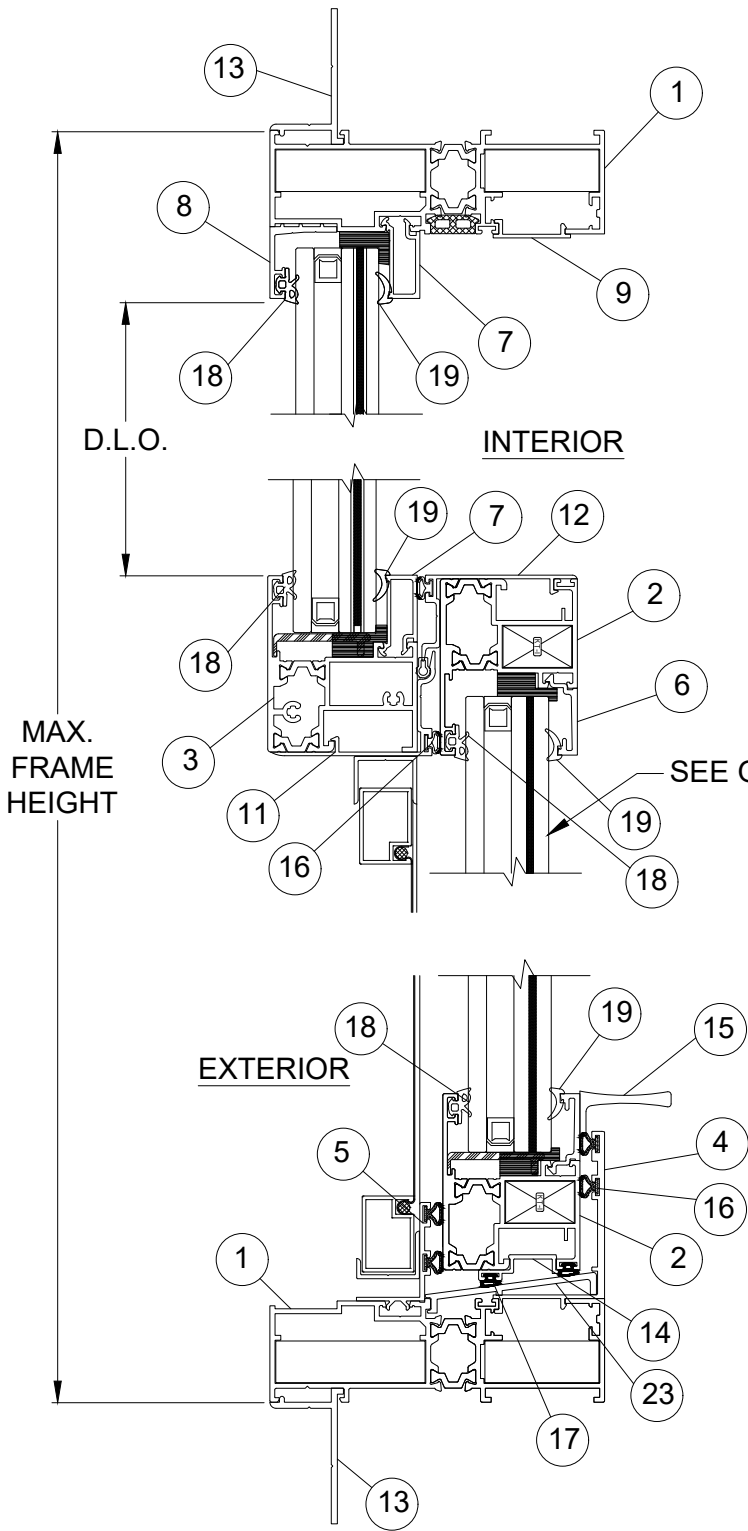
CROSS SECTIONS - ALDOM EXTRUSIONS

ALDOM EXTRUSIONS SHOWN ON SHEET 3 USED IN TESTING (TEST REPORT NO. NCTL-210-4254-1). INSTALLATION DETAILS ON SHEETS 6 & 7 SHOW ALDOM EXTRUSIONS.

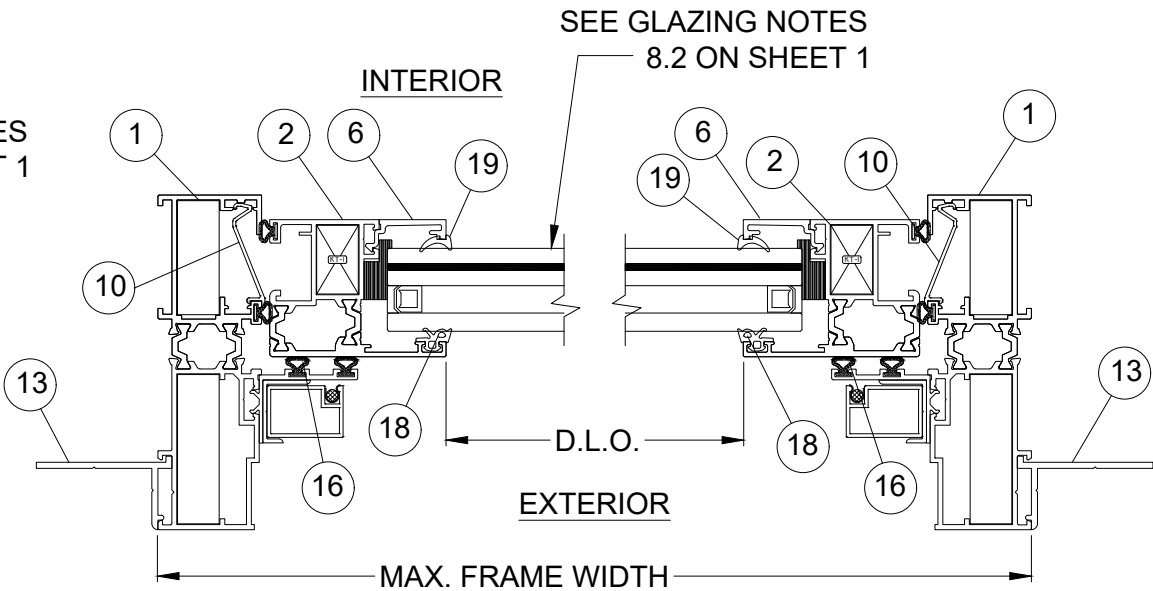
BURAK EXTRUSIONS SHOWN ON SHEET 4 ARE ACCEPTABLE SUBSTITUTE FOR ALDOM EXTRUSIONS BASED ON NAMI WAIVER OF RETEST NO. W-2056.

SEE SHEETS 8 & 9 FOR ALDOM EXTRUSION BOM AND COMPONENT DETAILS.

REVISIONS			
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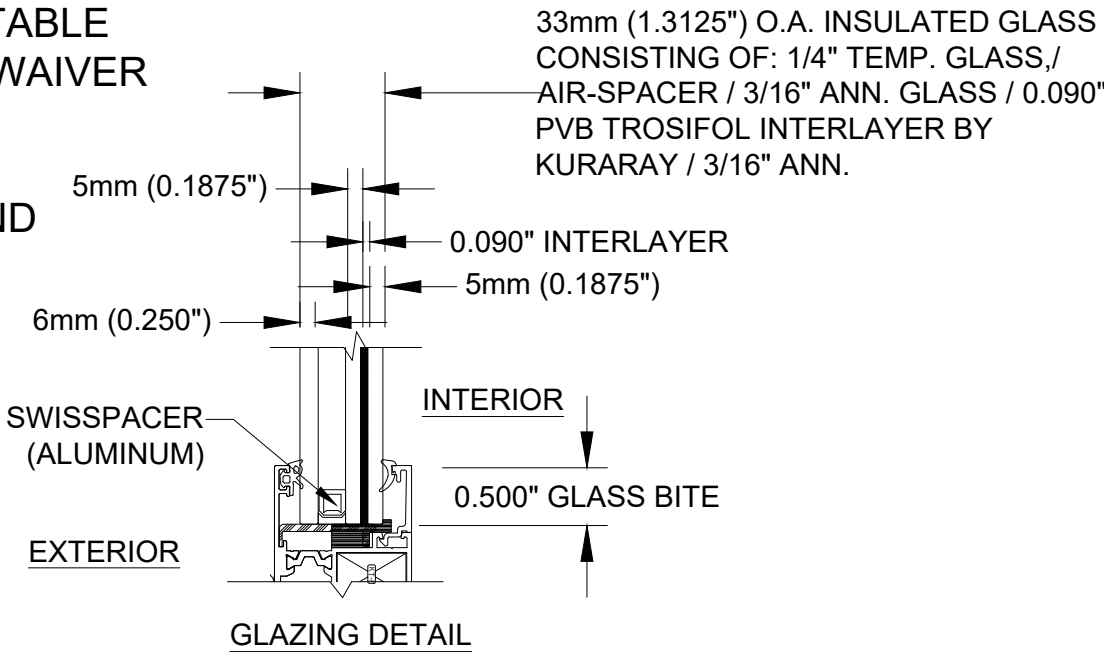


A
3
VERTICAL SECTION



B
3
HORIZONTAL SECTION
FRAME JAMB

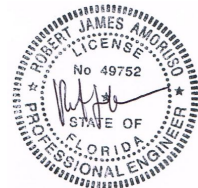
BOPP
3
HORIZONTAL SECTION
FRAME JAMB



GLAZING DETAIL

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SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW ALDOM - CROSS SECTIONS & GLAZING DETAILS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 3_OF_11

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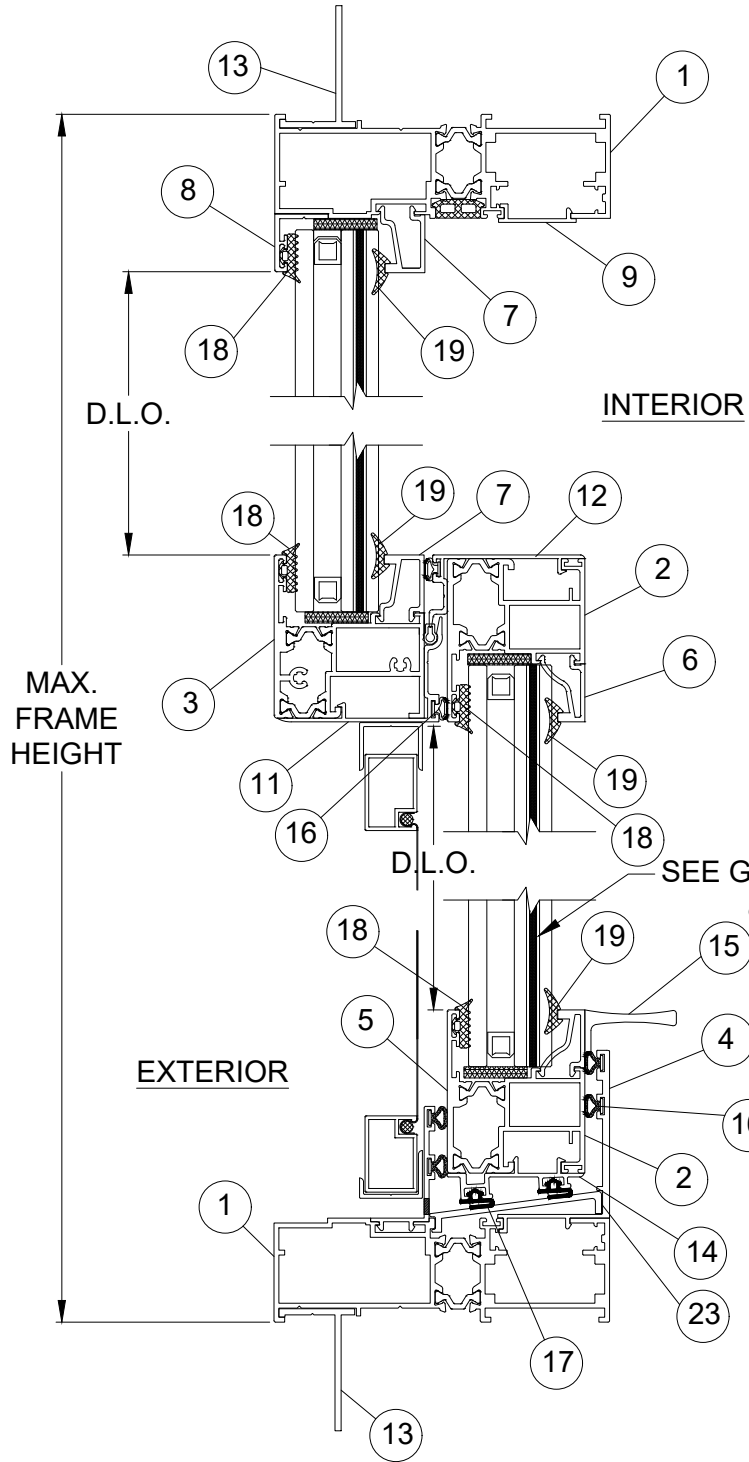
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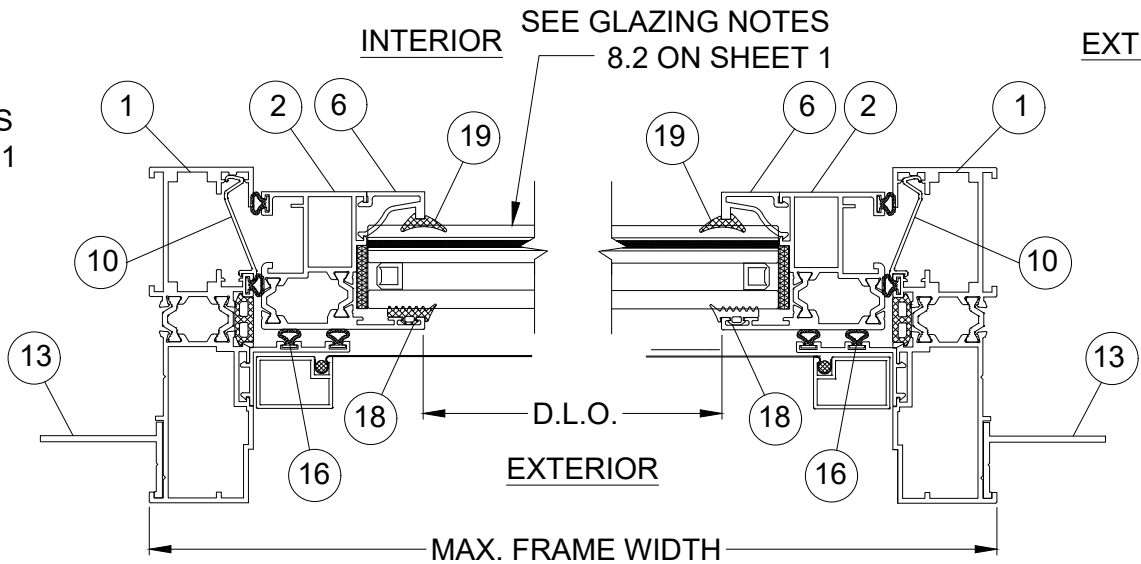
CROSS SECTIONS - BURAK EXTRUSIONS

ALDOM EXTRUSIONS SHOWN ON SHEET 3 USED IN TESTING (TEST REPORT NO. NCTL-210-4254-1). INSTALLATION DETAILS ON SHEETS 6 & 7 SHOW ALDOM EXTRUSIONS. BURAK EXTRUSION SHOWN ON THIS SHEET ARE ACCEPTABLE SUBSTITUTE FOR ALDOM EXTRUSIONS BASED ON NAMI WAIVER OF RETEST NO. W-2056.

SEE SHEETS 10 & 11 FOR BURAK EXTRUSION BOM AND COMPONENT DETAILS.

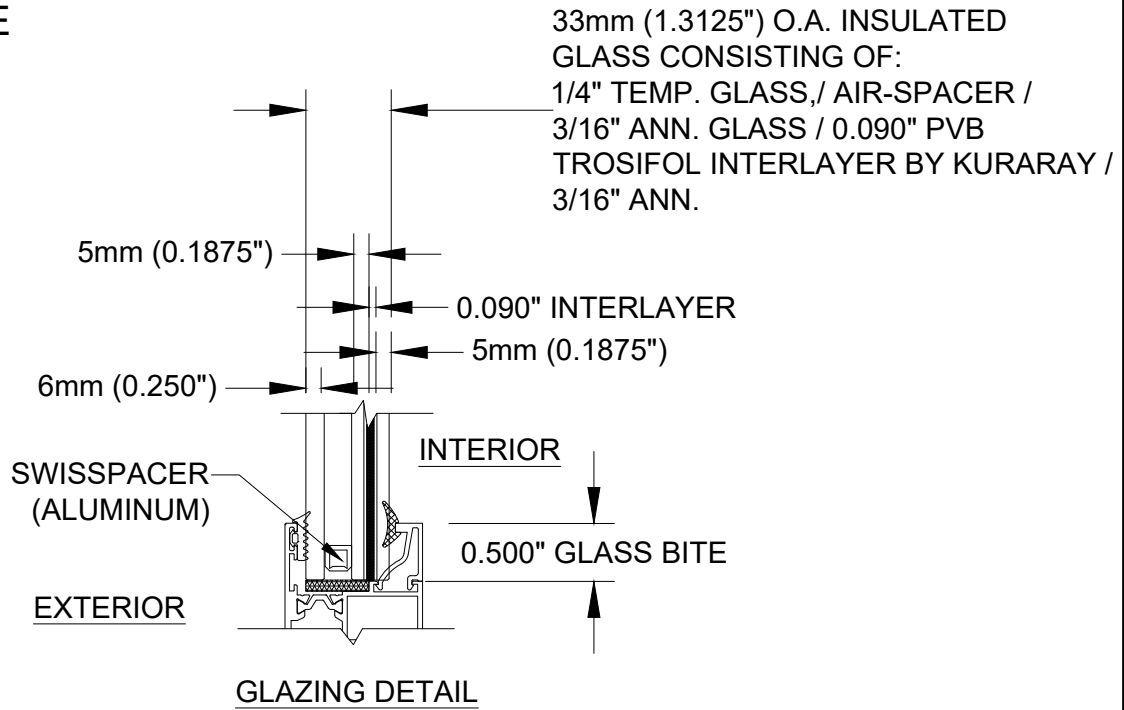


A VERTICAL SECTION



B HORIZONTAL SECTION
FRAME JAMB

B OPP HORIZONTAL SECTION
FRAME JAMB

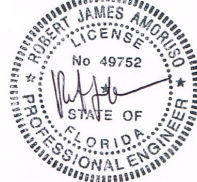


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407 RIVER HEIGHTS CIRCLE
ANDERSON, SC 29621

SERIES IMPACT MP-4500 A/B
ALUMINUM SINGLE HUNG WINDOW
BURAK - CROSS SECTIONS & GLAZING DETAILS

DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 4_OF_11

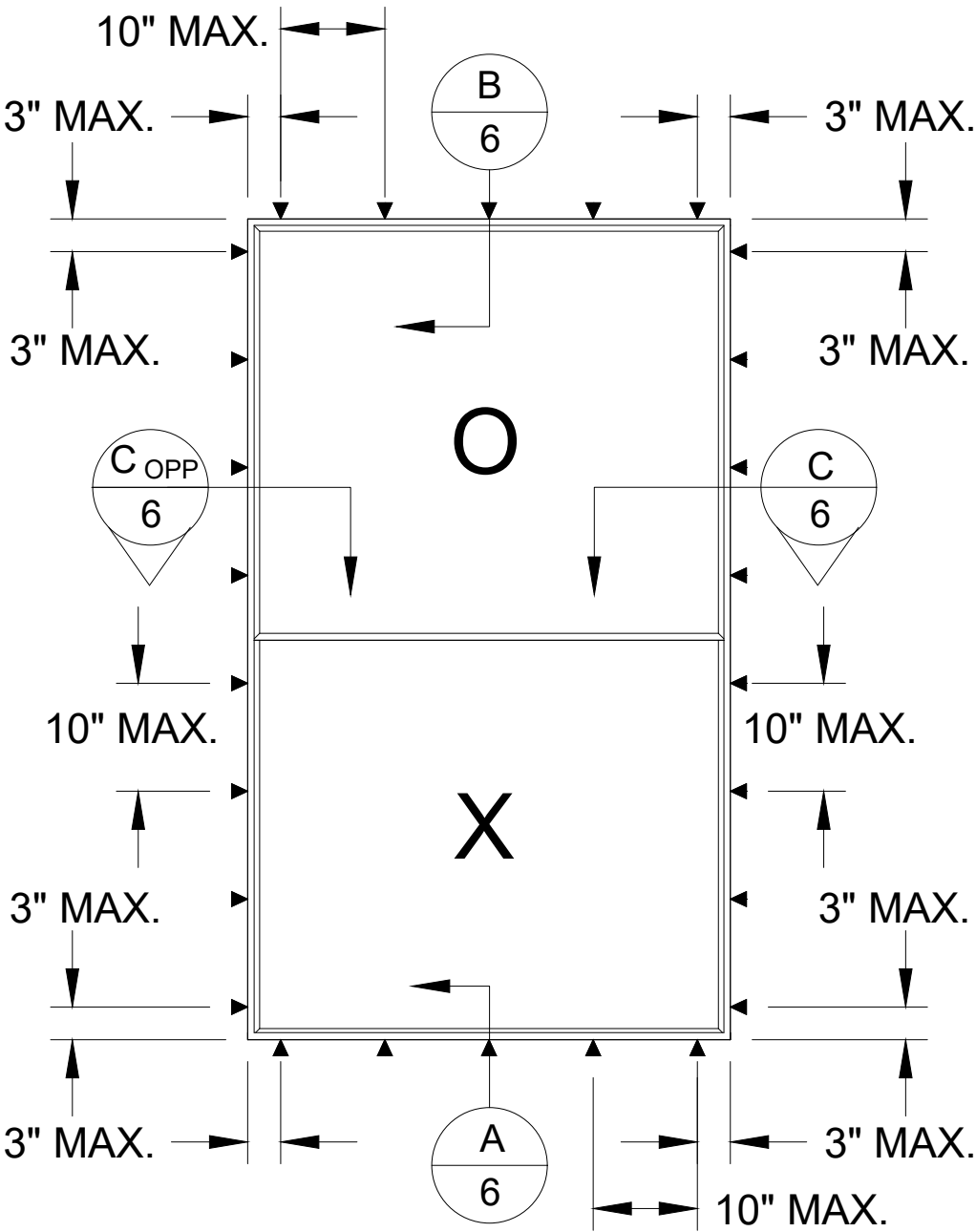
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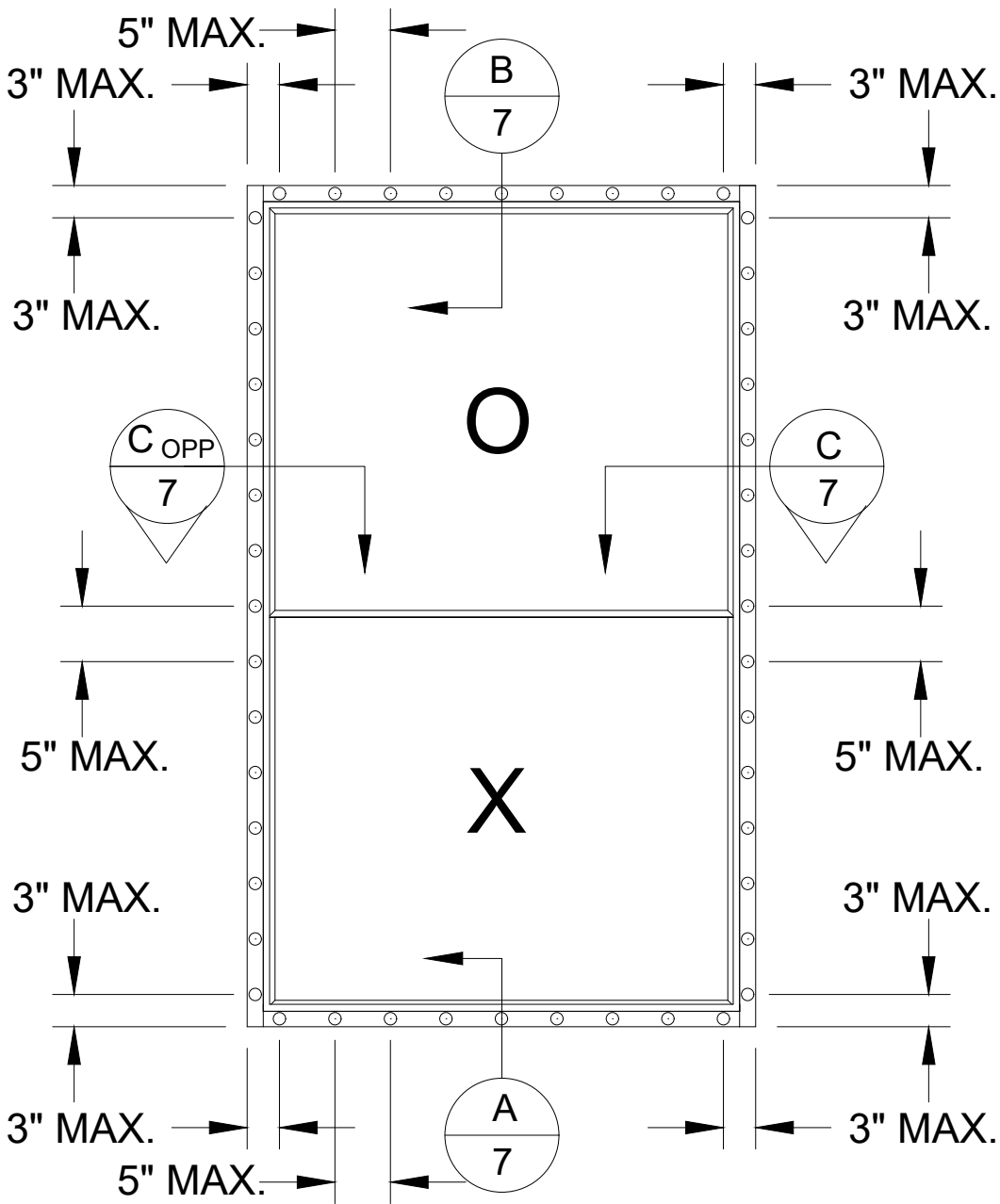
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ANCHOR LAYOUT
THROUGH FRAME
INSTALLATION



ANCHOR LAYOUT
NAILING FIN
INSTALLATION

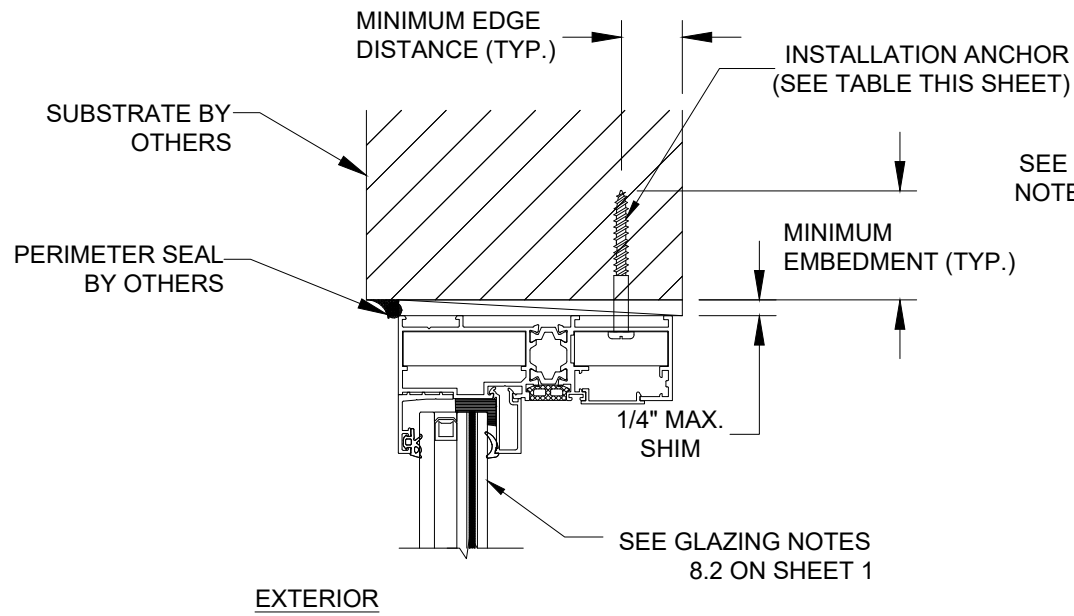
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SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW INSTALLATION ELEVATIONS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 5_OF_11

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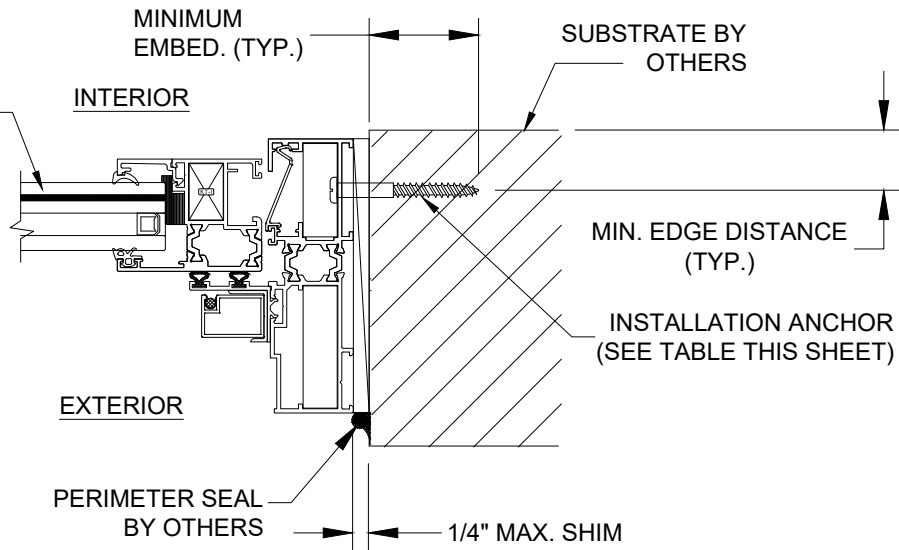
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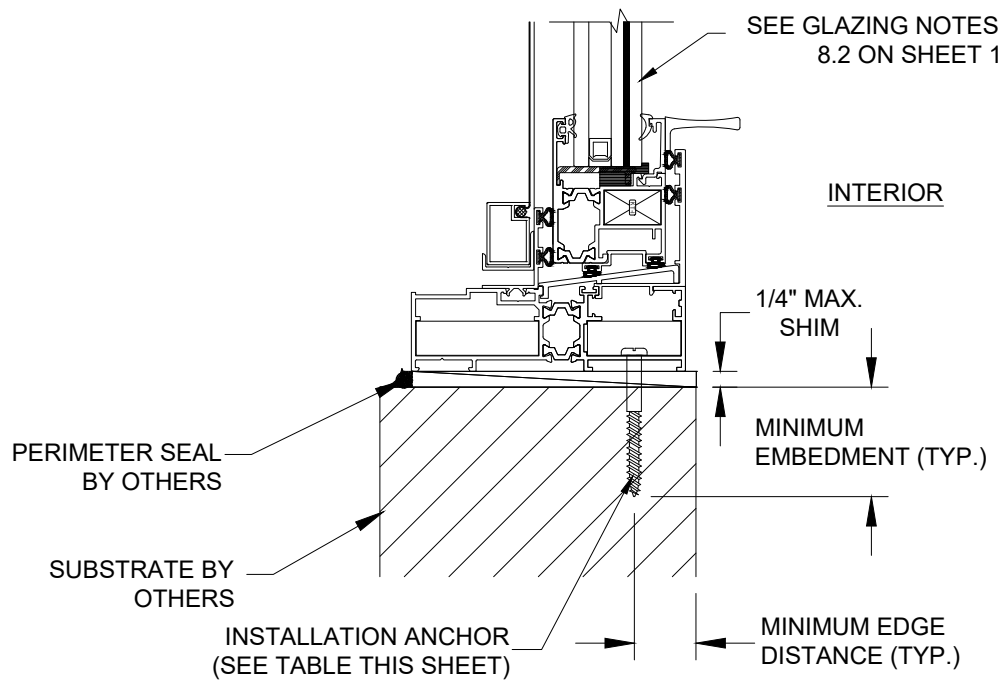
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B
4 **ANCHOR DETAIL**
THROUGH FRAME
FRAME HEAD



C
4 **ANCHOR DETAIL**
THROUGH FRAME
FRAME JAMB



A
4 **ANCHOR DETAIL**
THROUGH FRAME
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)	#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 ADVANCED THREADFORM TECHNOLOGIES CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 10 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

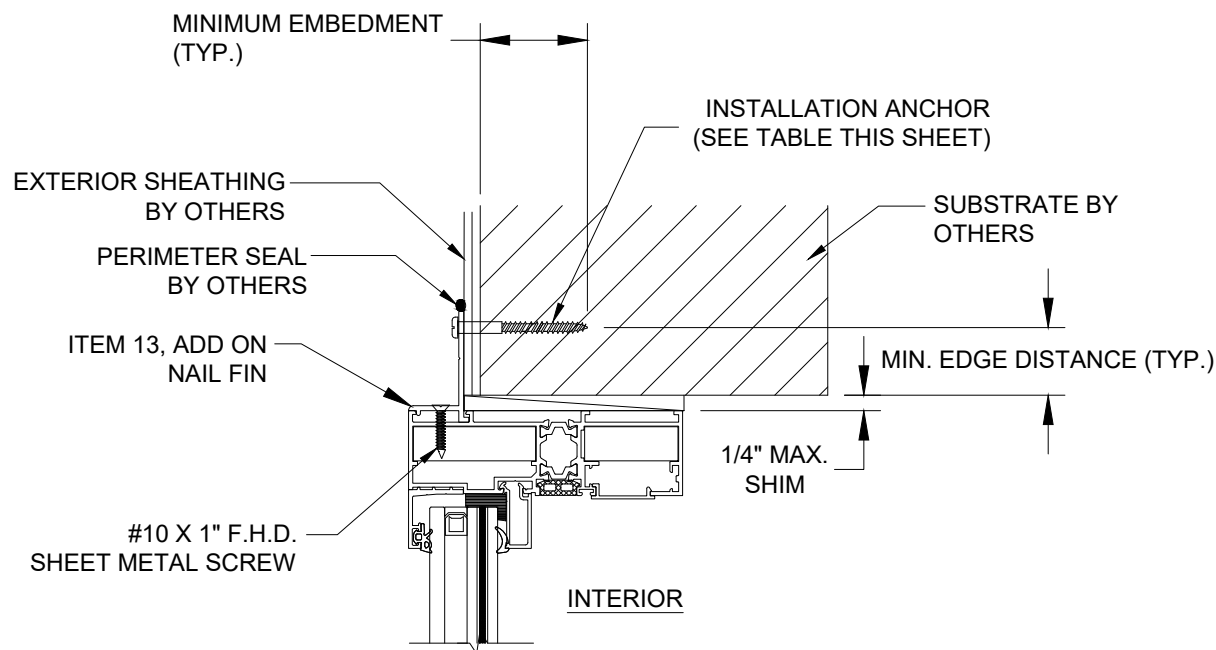
M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW INSTALLATION SECTIONS - THROUGH FRAME		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 6_OF_11

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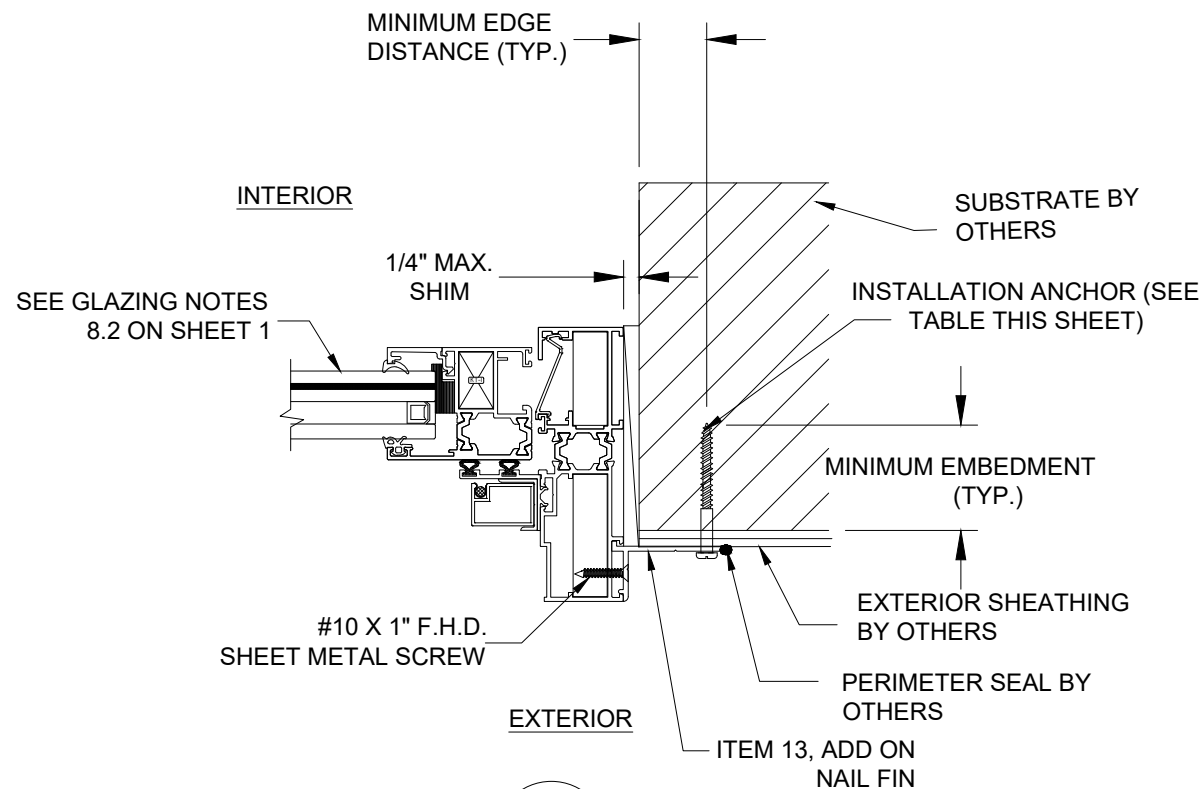
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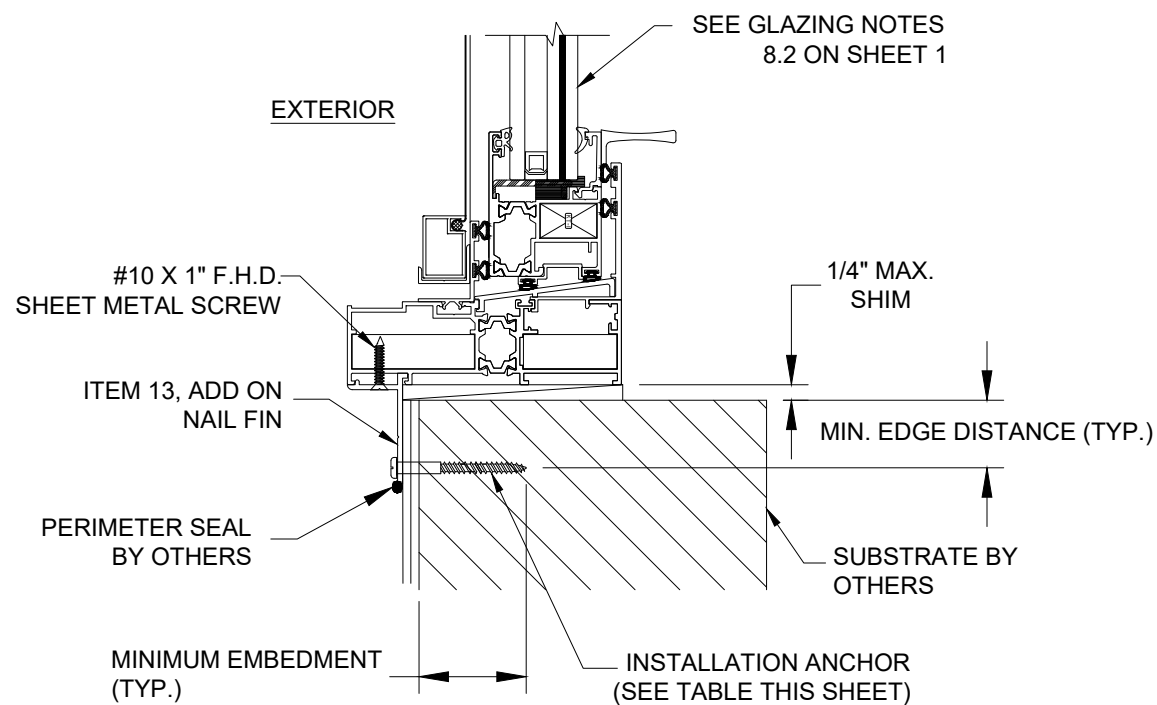
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B
5 **ANCHOR DETAIL**
NAILING FIN
FRAME HEAD



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

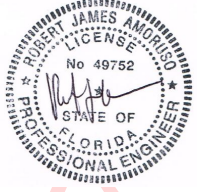


A
5 **ANCHOR DETAIL**
NAILING FIN
FRAME SILL

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-4500 A/B ALUMINUM SINGLE HUNG WINDOW INSTALLATION SECTIONS - FIN FRAME		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 7_OF_11

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BILL OF MATERIALS & COMPONENTS FOR ALDOM EXTRUSIONS

ALDOM EXTRUSIONS SHOWN ON SHEET 3 USED IN TESTING (TEST REPORT NO. NCTL-210-4254-1).
INSTALLATION DETAILS ON SHEETS 6 TO 7 SHOW ALDOM EXTRUSIONS.
BURAK EXTRUSION SHOWN IN SHEET 4 ARE ACCEPTABLE SUBSTITUTE FOR ALDOM EXTRUSIONS
BASED ON NAMI WAIVER OF RETEST NO. W-2056.

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	SH1002	MAIN FRAME (HEAD, JAMB & SILL), ALUMINUM	ALDOM EXTRD.
2	SH1004	SASH, RAILS AND STILES, ALUM.	ALDOM EXTRD.
3	SH1001	INTERLOCK STILES, ALUM.	ALDOM EXTRD.
4	SH1008	INTERIOR SILL RISER LEG, ALUMINUM	ALDOM EXTRD.
5	SH1012	EXTERIOR SILL LEG ADD ON, ALUMINUM	ALDOM EXTRD.
6	SH1013	27.8 MM SASH GLAZING BEAD, ALUMINUM	ALDOM EXTRD.
7	SH1014	27.8 MM FIXED GLAZING BEAD, ALUMINUM	ALDOM EXTRD.
8	59A09	FIXED GLASS SUPPORT, ALUMINUM	ALDOM EXTRD.
9	SH1011	UPPER FRAME COVER, ALUMINUM	ALDOM EXTRD.
10	SH1006	VERTICAL FRAME COVER, ALUMINUM	ALDOM EXTRD.
11	SH1003	EXTERIOR INTERLOCK ADAPTOR, ALUMINUM	ALDOM EXTRD.
12	SH1005	INTERIOR INTERLOCK ADAPTOR, ALUMINUM	ALDOM EXTRD.
13	SH1015	NAILING FIN ADD-ON, ALUMINUM	PURCHASE
14	SH1007	SASH BOTTOM COVER, ALUMINUM	PURCHASE
15	SH1017	HANDLE PROFILE, ALUMINUM	PURCHASE
16	-----	FRAME GASKET, EPDM RUBBER	PURCHASE
17	-----	SASH GASKET, EPDM RUBBER	PURCHASE
18	-----	EXTERIOR GLAZING GASKET, EPDM RUBBER	PURCHASE
19	-----	INTERIOR GLAZING GASKET, EPDM RUBBER	PURCHASE
20	-----	#10 PH S.M.S.	PURCHASE
21	-----	#10 PH WOOD SCREW	PURCHASE
22	-----	3/16" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
23	-----	SILL THRESHOLD	ALDOM EXTRD.

M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW ALDOM - BILL OF MATERIALS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 8_OF_11

ROBERT J. AMORUSO
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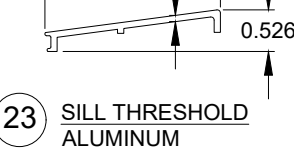
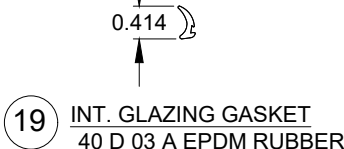
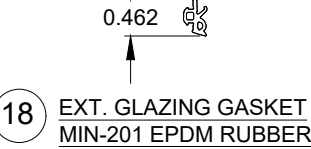
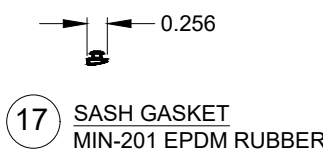
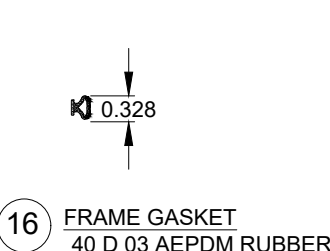
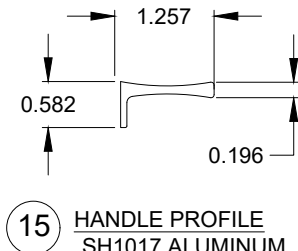
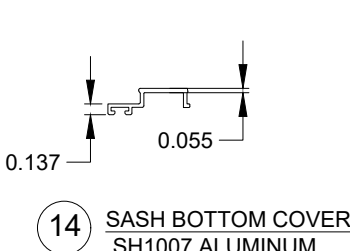
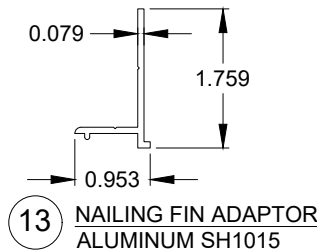
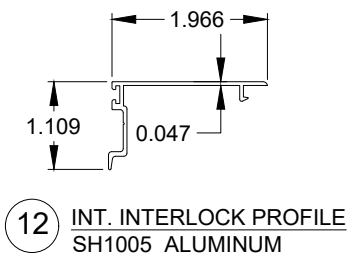
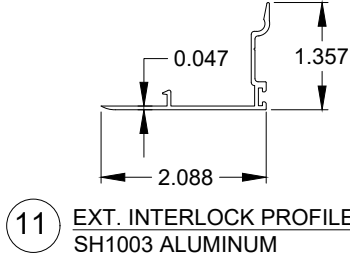
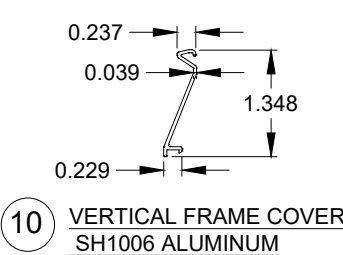
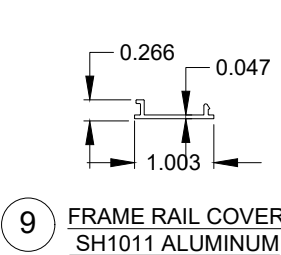
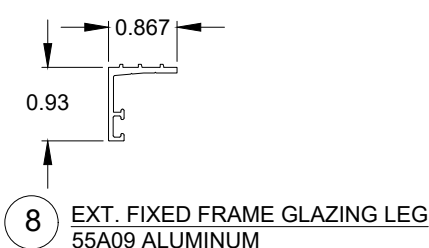
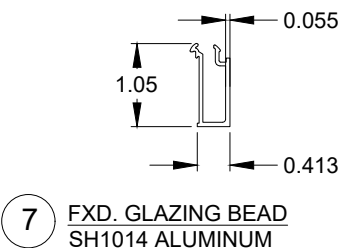
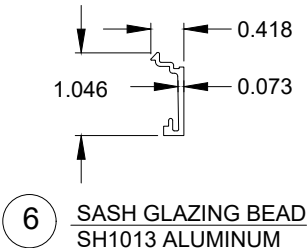
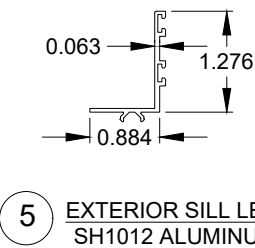
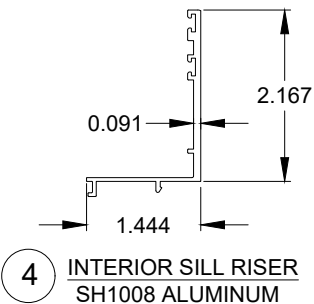
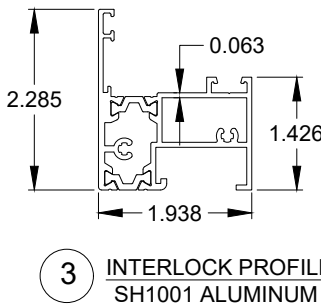
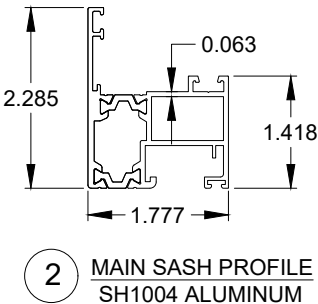
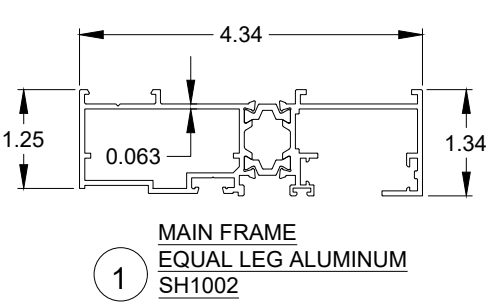
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BILL OF MATERIALS & COMPONENTS FOR ALDOM EXTRUSIONS

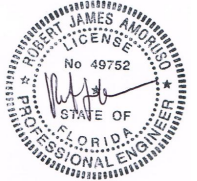
ALDOM EXTRUSIONS SHOWN ON SHEET 3 USED IN TESTING (TEST REPORT NO. NCTL-210-4254-1).
INSTALLATION DETAILS ON SHEETS 6 TO 7 SHOW ALDOM EXTRUSIONS.
BURAK EXTRUSION SHOWN IN SHEET 4 ARE ACCEPTABLE SUBSTITUTE FOR ALDOM EXTRUSIONS
BASED ON NAMI WAIVER OF RETEST NO. W-2056.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW ALDOM - COMPONENTS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 9_OF_11

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



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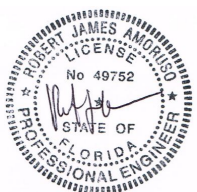
BILL OF MATERIALS & COMPONENTS FOR BURAK
EXTRUSIONS

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BURAK EXTRUSION SHOWN SHOWN ON SHEET 4 ARE ACCEPTABLE SUBSTITUTE FOR ALDOM EXTRUSIONS BASED ON NAMI WAIVER OF RETEST NO. W-2056.

QTY.	PART NO.	DESCRIPTION	MANUFACTURER
1	HW-105	MAIN FRAME (HEAD, JAMB & SILL), ALUMINUM	BURAK EXTRD.
2	HW-106	SASH, RAILS AND STILES, ALUM.	BURAK EXTRD.
3	HW-107	INTERLOCK STILES, ALUM.	BURAK EXTRD.
4	18172	INTERIOR SILL RISER LEG, ALUMINUM	BURAK EXTRD.
5	18171	EXTERIOR SILL LEG ADD ON, ALUMINUM	BURAK EXTRD.
6	18176	27.8 MM SASH GLAZING BEAD, ALUMINUM	BURAK EXTRD.
7	15514	27.8 MM FIXED GLAZING BEAD, ALUMINUM	BURAK EXTRD.
8	18173	FIXED GLASS SUPPORT, ALUMINUM	BURAK EXTRD.
9	18162	UPPER FRAME COVER, ALUMINUM	BURAK EXTRD.
10	15517	VERTICAL FRAME COVER, ALUMINUM	BURAK EXTRD.
11	18173	EXTERIOR INTERLOCK ADAPTOR, ALUMINUM	BURAK EXTRD.
12	18165	INTERIOR INTERLOCK ADAPTOR, ALUMINUM	BURAK EXTRD.
13	18161	NAILING FIN ADD-ON, ALUMINUM	PURCHASE
14	18177	SASH BOTTOM COVER, ALUMINUM	PURCHASE
15	18178	HANDLE PROFILE, ALUMINUM	PURCHASE
16	-----	FRAME GASKET, EPDM RUBBER	PURCHASE
17	-----	SASH GASKET, EPDM RUBBER	PURCHASE
18	212241	EXTERIOR GLAZING GASKET, EPDM RUBBER	PURCHASE
19	212138	INTERIOR GLAZING GASKET, EPDM RUBBER	PURCHASE
20	-----	#10 PH S.M.S.	PURCHASE
21	-----	#10 PH WOOD SCREW	PURCHASE
22	-----	3/16" DIAM. I.T.W. MASONRY ANCHOR	PURCHASE
23	332089	SILL THRESHOLD	BURAK EXTRD.

M.P. WINDOWS, INC. 407 RIVER HEIGHTS CIRCLE ANDERSON, SC 29621		
SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW BURAK - BILL OF MATERIALS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 10_OF_11

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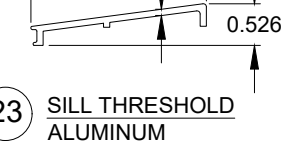
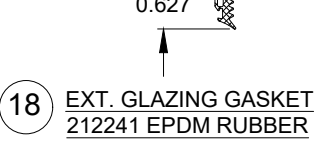
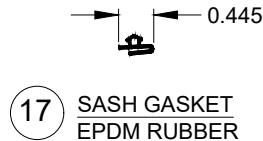
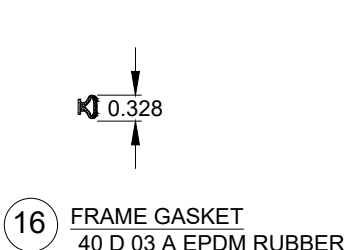
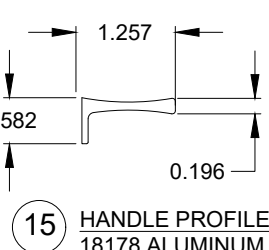
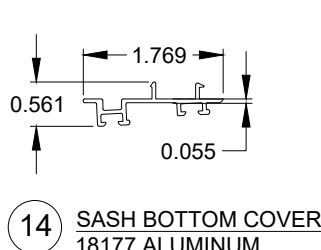
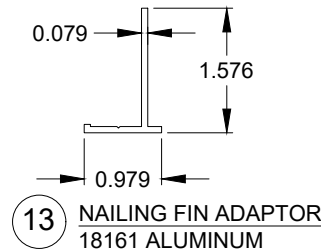
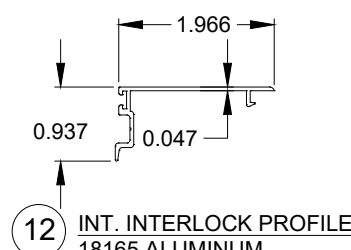
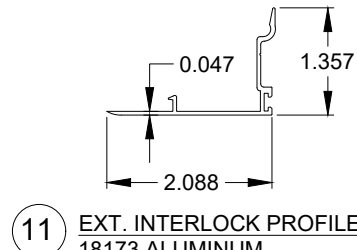
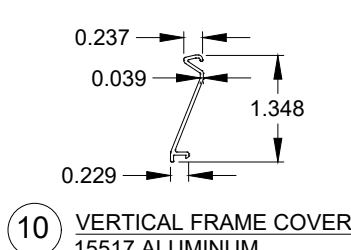
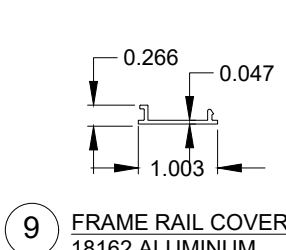
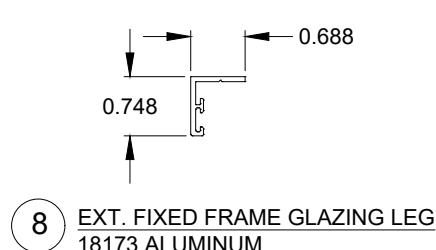
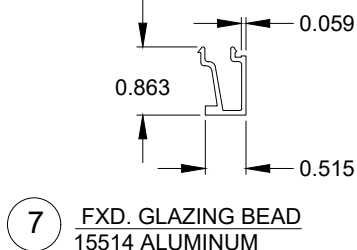
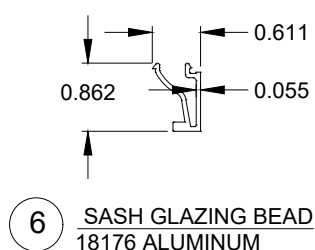
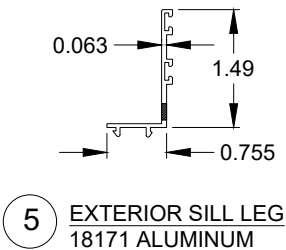
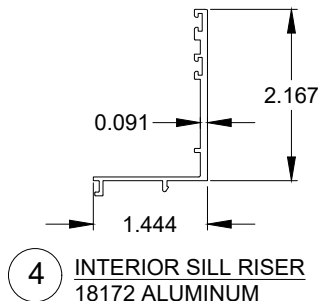
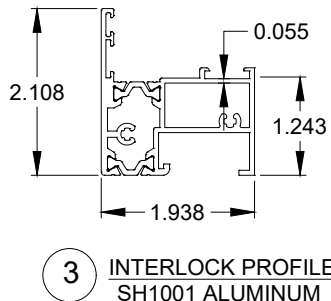
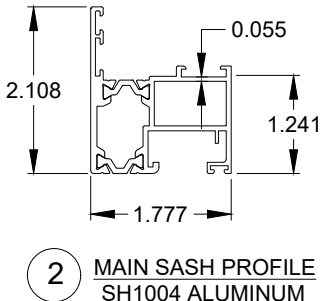
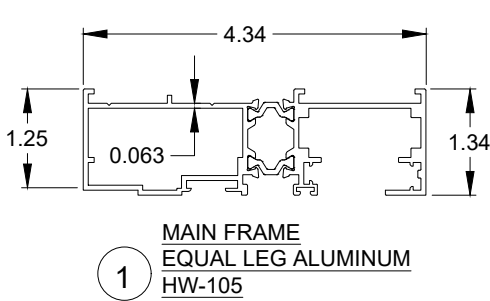


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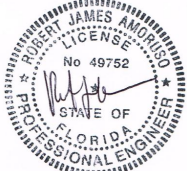
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SERIES IMPACT MP-4500 A/B ALUMINUM SINGLE HUNG WINDOW BURAK - COMPONENTS		
DRAWN: JRM/RJA	DWG NO. SCS-0019	REV 0
SCALE N.T.S.	DATE 10/21/2022	SHEET 11_OF_11

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