

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.
3. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS ¼ INCH. SHIM WHERE SPACE OF ⅛ INCH OR GREATER OCCURS.SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
4. FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1½ INCH MINIMUM EMBEDMENT.
5. FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/ MASONRY, OR DIRECTLY INTO CONCRETE/ MASONRY, USE 3/16 INCH ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1¼ INCH MINIMUM EMBEDMENT.
6. FOR INSTALLATION THROUGH METAL STUD USE #12-24 SELF-DRILLING SCREWS, GR. 5 OF SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM PENETRATION BEYOND METAL FRAME SUBSTRATE.
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
10. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER BELOW.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. MASONRY - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000PSI.

D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

E. ALUMINUM - MINIMUM 1/8 INCH THICK, 6063-T5 ALUMINUM

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE (FBC), **EXCLUDING** HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-17

AAMA 506-16

ASTM E1886-19

ASTM E1996-20
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 AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** TO PROTECT THIS PRODUCT IN WIND ZONE 3 OR LESS.
6. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN WIND ZONE 4.
7. WINDOW FRAME MATERIAL: 6063-T5 ALUMINUM
8. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 4 FOR GLAZING DETAILS.
9. DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X: OPERABLE PANEL

O: FIXED PANEL

ARCADIA, INC.

SERIES C3550 SINGLE HUNG WINDOW

(WZ3)(IMPACT)

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	GENERAL NOTES
2	ELEVATION, ANCHOR LAYOUT, & DESIGN PRESSURE TABLE
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS AND GLAZING DETAILS
5	COMPONENTS
6	BILL OF MATERIALS

DESIGN PRESSURE (PSF)	RATING
SEE SHEET 2	LARGE & SMALL MISSILE IMPACT



ARCADIA, INC.
2301 EAST VERNON AVE.
VERNON, CA 90058
PH: (323)771-9819

TITLE: C3550 SINGLE HUNG WINDOW
(WZ3)(IMPACT)
GENERAL NOTES

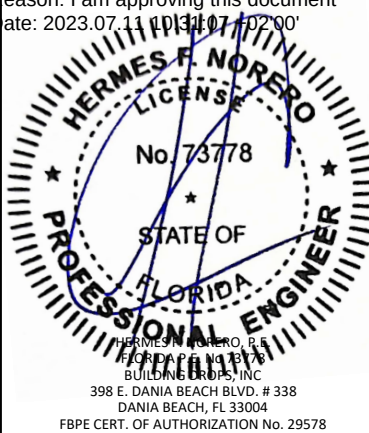
PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2023 CODE CHANGE	MG	06/23

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Reason: I am approving this document
Date: 2023.07.11 10:31:07 -02'00'



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DATE: 07.25.22

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CHK. BY: HFN

SCALE: NTS

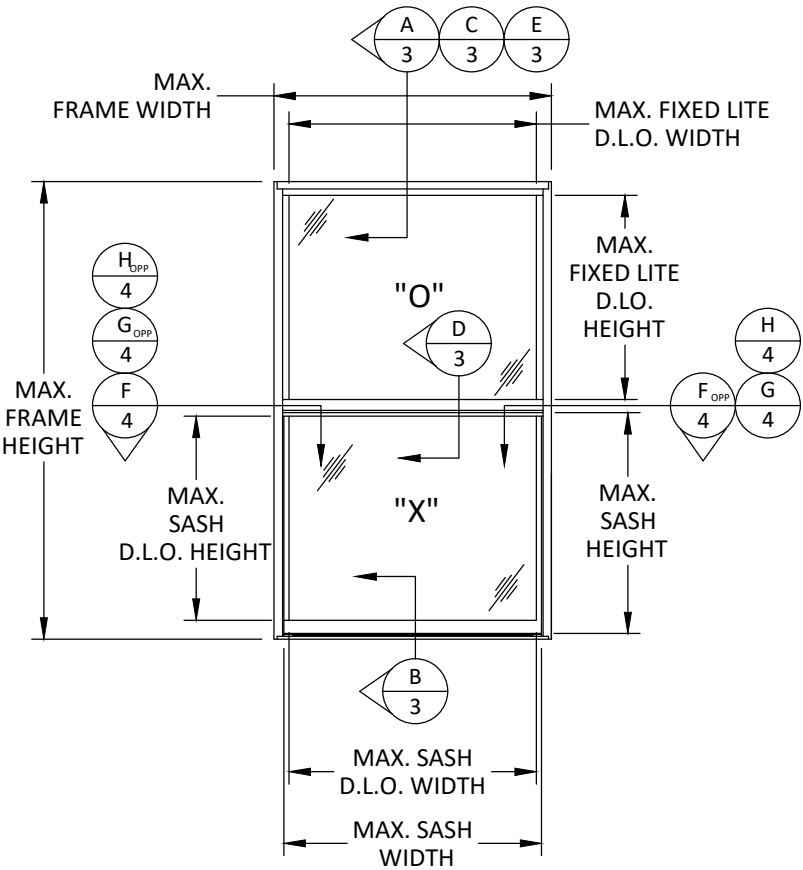
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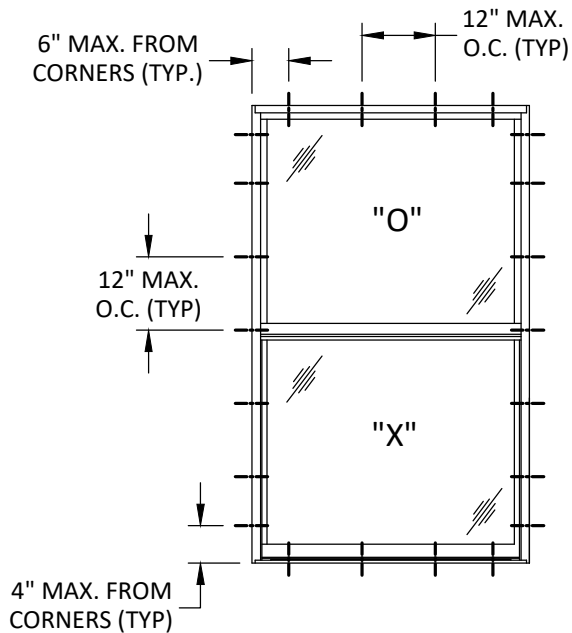
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ELEVATION



ANCHOR LAYOUT
THRU FRAME

TABLE 1: ANCHOR SCHEDULE			
ANCHOR	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
3/16" ITW TAPCON	CONCRETE (MIN 3000 PSI)	1-1/4"	2-1/2"
	MASONRY (ASTM C-90)		
#10 WOOD SCREW	2X WOOD BUCK (MIN. S.G. = 0.55)	1-1/2"	3/4"
#12-24 SELF-DRILLING SCREWS GR. 5	ALUMINUM (6063-T5)	3 THREADS MIN.	3/4"
	STEEL (MIN. YEILD 33KSI)		

NOTE:
1.) SASH WIDTH = FRAME WIDTH - 3.5
2.) SASH HEIGHT = (FRAME HEIGHT/2) + 0.4375
3.) SASH D.L.O. WIDTH = FRAME WIDTH - 6.5
4.) SASH D.L.O. HEIGHT = (FRAME HEIGHT/2) - 5.375
5.) FIXED D.L.O. WIDTH = FRAME WIDTH - 6.375
6.) FIXED D.L.O. HEIGHT = (FRAME HEIGHT/2) - 5.375

DESIGN PRESSURE (PSF)		
WINDOW DIMENSIONS		EXT (+)
WIDTH	HEIGHT	INT (-)
36	60	65
39		65
42		65
45		65
48		65
51		59
54	63	49
57		41
36		65
39		65
42		65
45		65
48	66	65
51		57
54		47
36		65
39		65
42		65
45	69	65
48		65
36		65
39		65
42		65
45	72	65
48		65
36		65
39		65
42		65
45	75	65
48		65
36		65
39		65
42		65
45	78	65
48		65
36		65
39		65
42		65
45	81	65
48		65
36		65
39		65
42		65
45	84	65
48		65
36		65
39		65
42		65
45	87	65
48		65
36		65
39		65
42		65
45	90	65
48		65
36		65
39		65
42		65
45	96	65
48		65
36		65
39		65
42		65

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TITLE: C3550 SINGLE HUNG WINDOW (WZ3)(IMPACT)
ELEVATION, ANCHOR LAYOUT, & DESIGN PRESSURE TABLE

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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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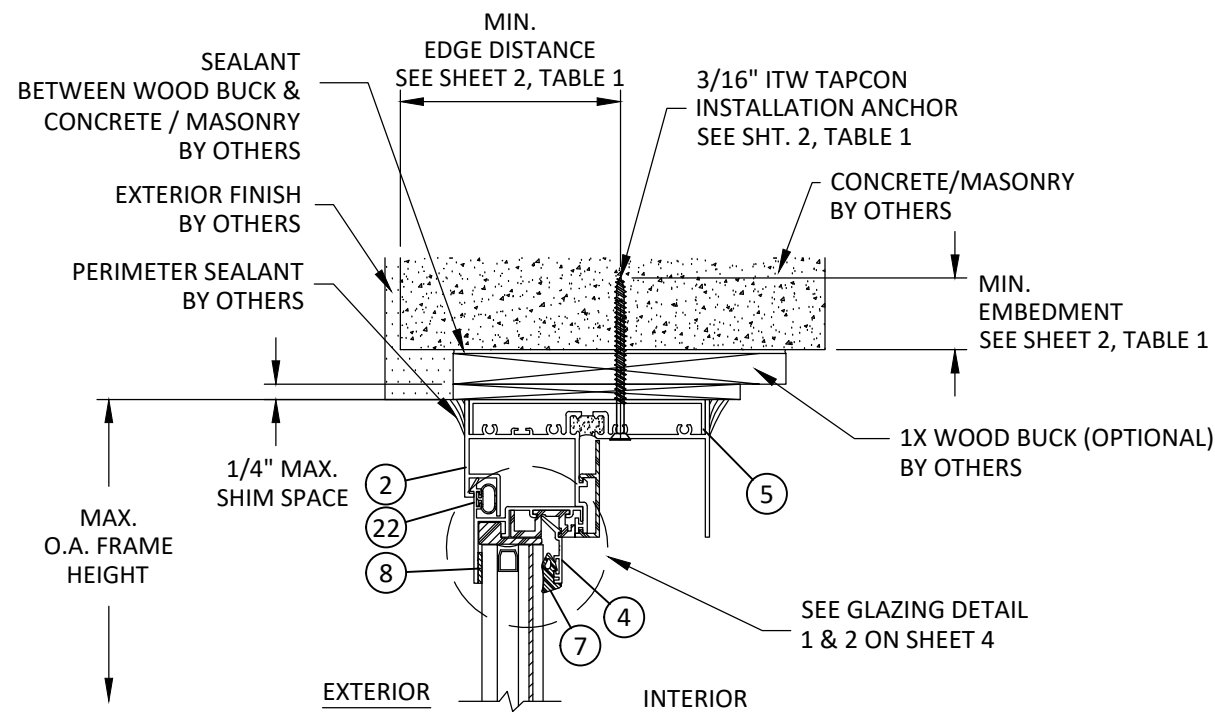
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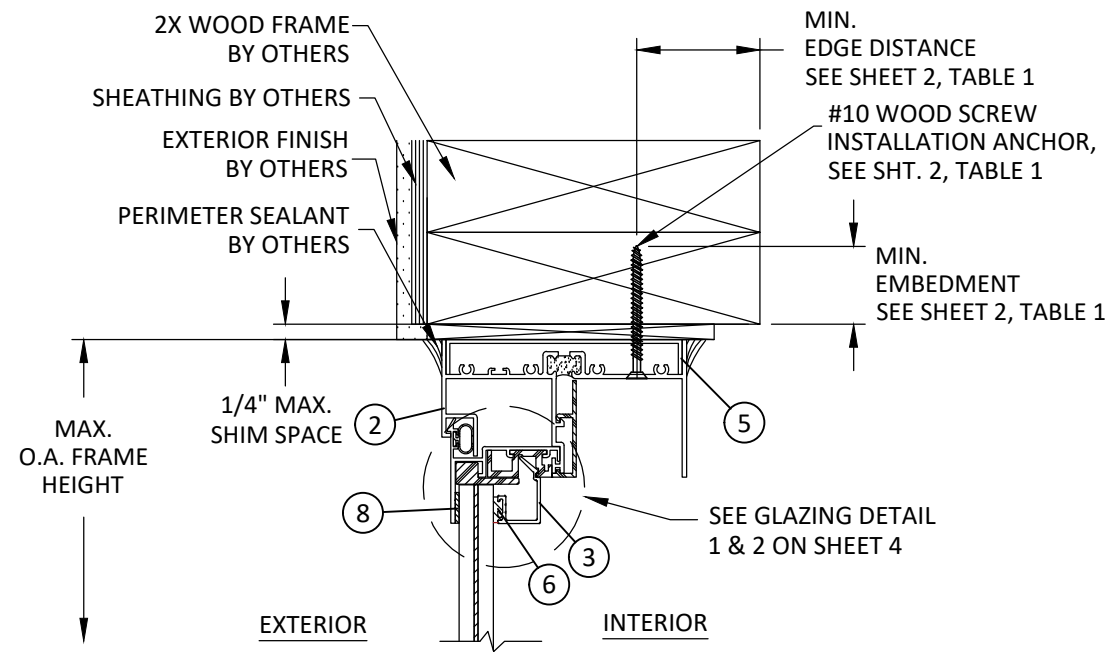
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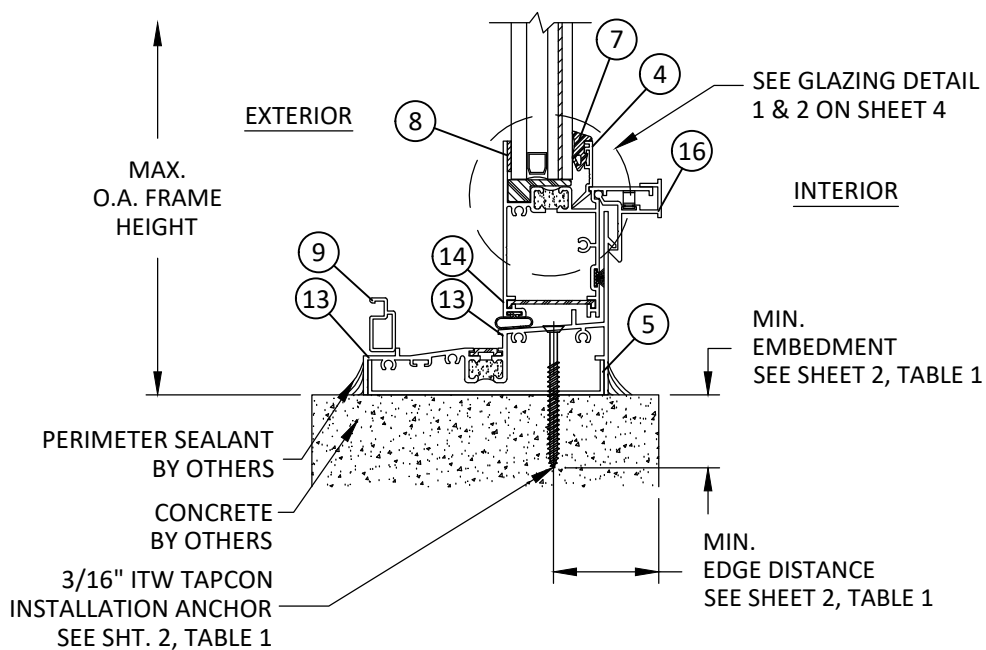
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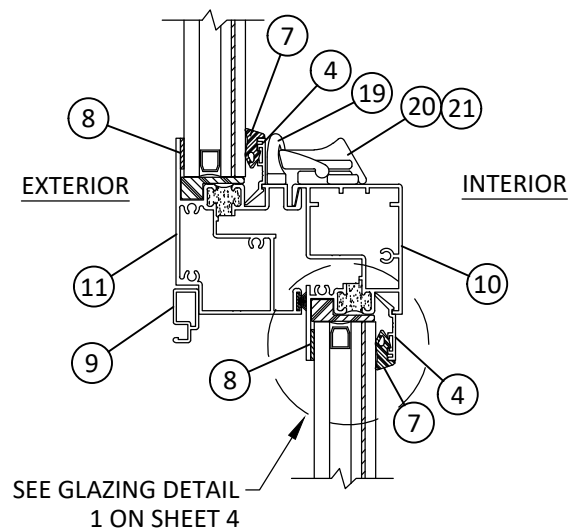
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3 VERTICAL SECTION
CONCRETE/MASONRY
SHEAR PLATE INSTALLATION



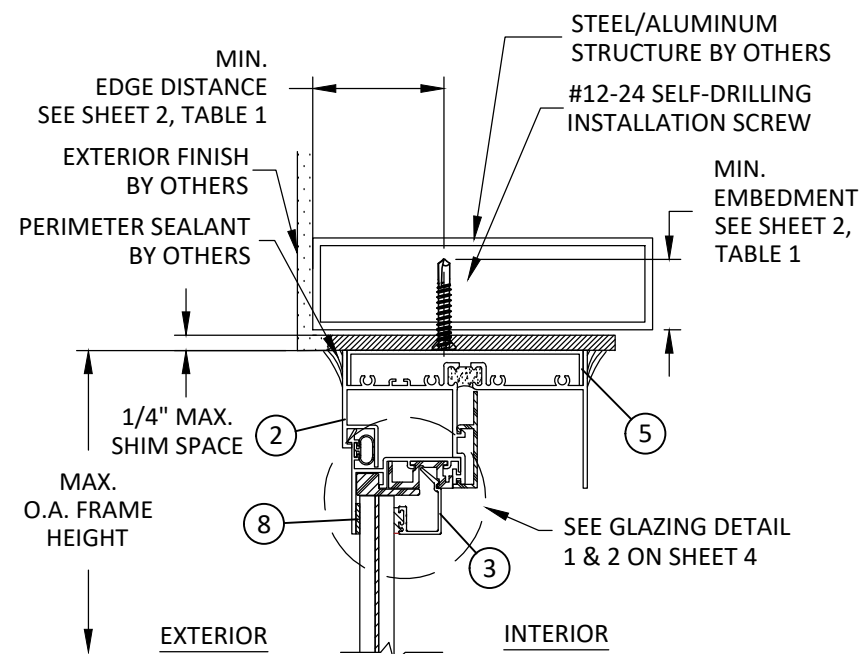
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2X WOOD FRAMING
SHEAR PLATE INSTALLATION



B
3 VERTICAL SECTION
CONCRETE/MASONRY
SHEAR PLATE INSTALLATION



D
3 VERTICAL SECTION
MEETING RAIL



E
3 VERTICAL SECTION
ALUMINUM/STEEL
SHEAR PLATE INSTALLATION



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TITLE: C3550 SINGLE HUNG WINDOW
(WZ3)(IMPACT)
VERTICAL SECTIONS

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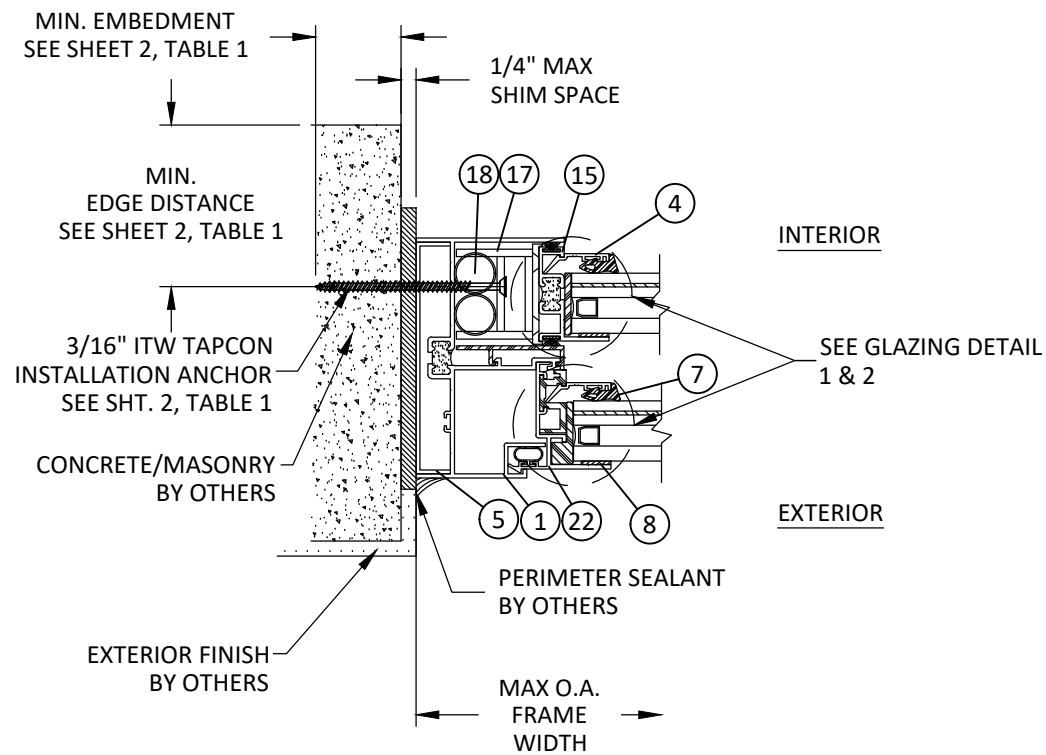
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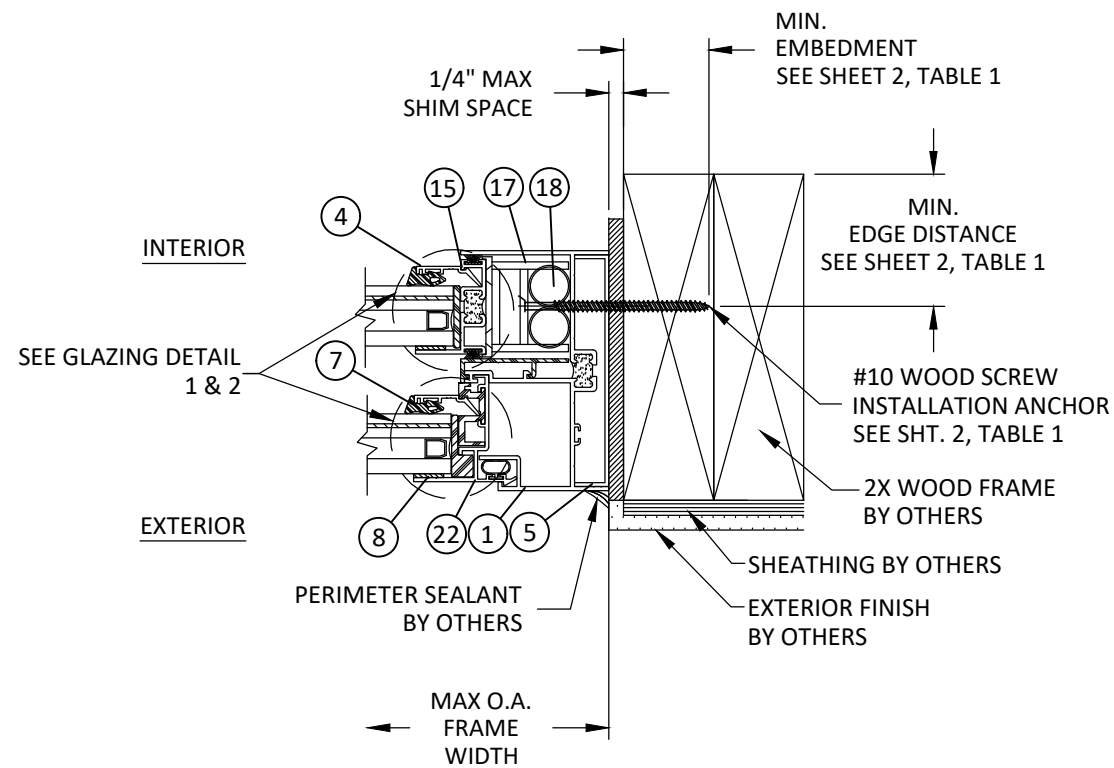
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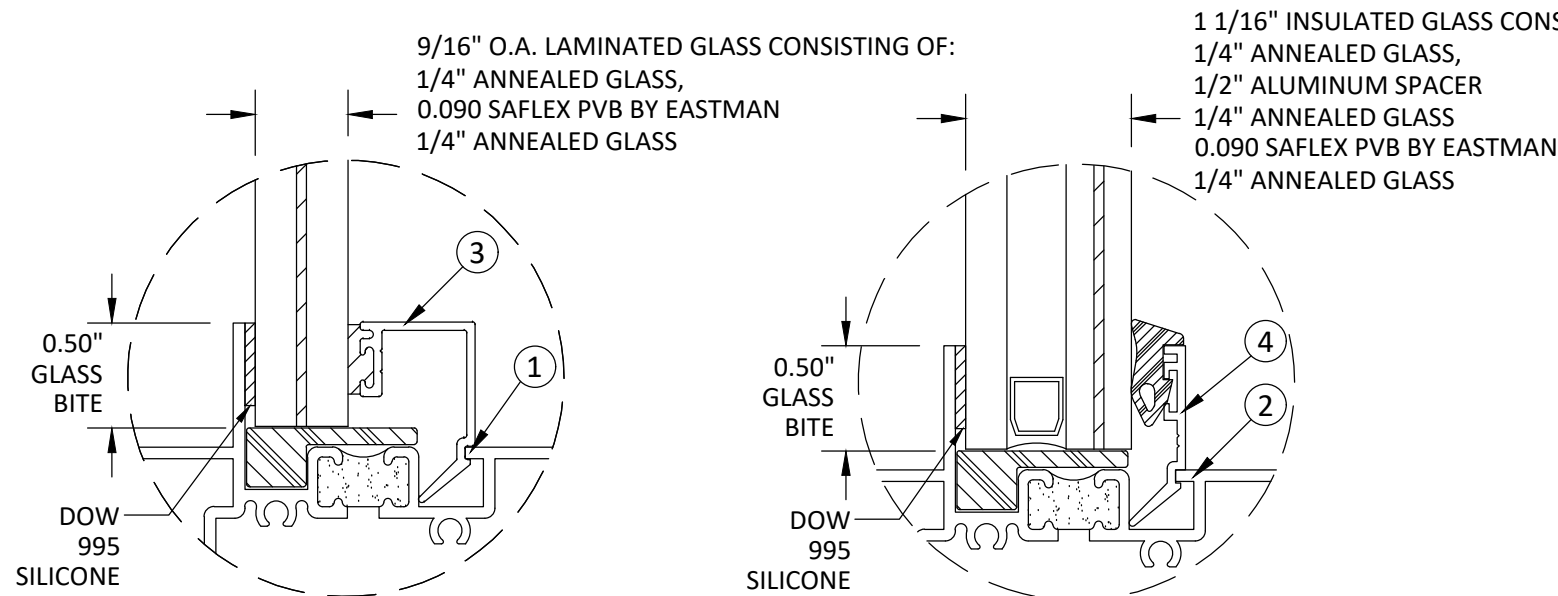
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F
4 HORIZONTAL SECTION
CONCRETE/MASONRY
SHEAR PLATE INSTALLATION



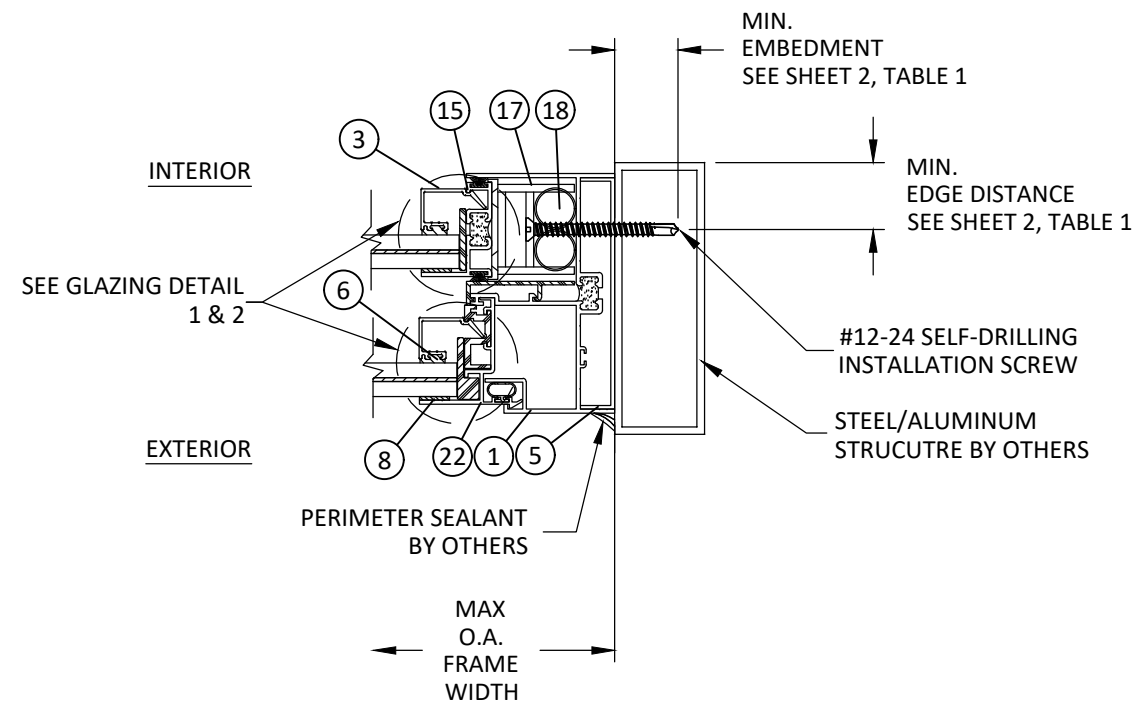
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4 HORIZONTAL SECTION
2X WOOD BUCK
SHEAR PLATE INSTALLATION



GLAZING DETAIL 1

GLAZING DETAIL 2

- GLAZING NOTES:
- GLASS TYPE AND THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
 - D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES ON SHEET 2.



H
4 HORIZONTAL SECTION
ALUMINUM/STEEL
SHEAR PLATE INSTALLATION



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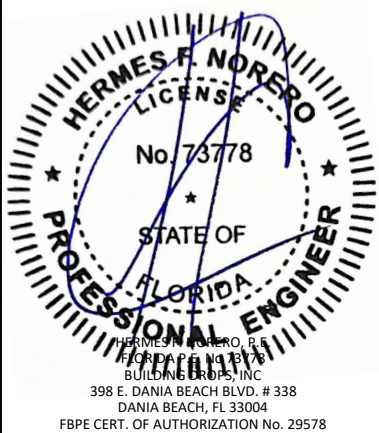
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(WZ3)(IMPACT)
HORIZONTAL SECTIONS
& GLAZING DETAILS

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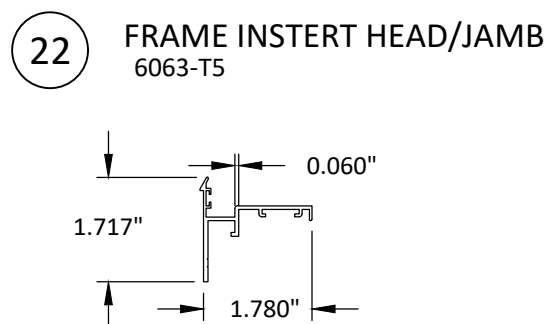
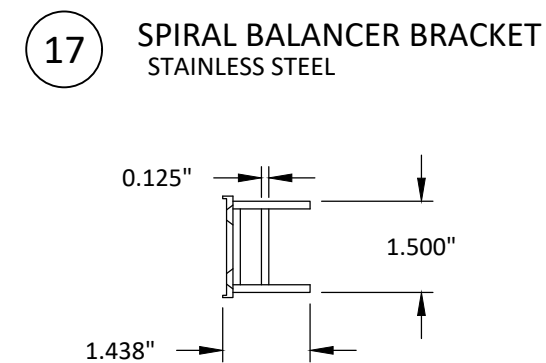
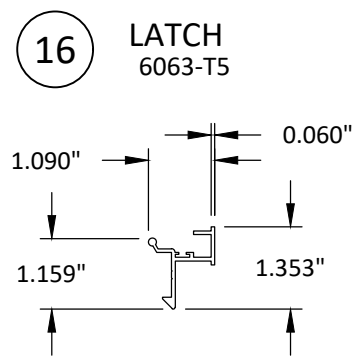
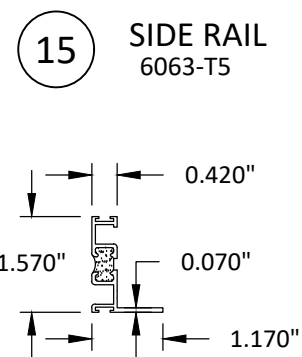
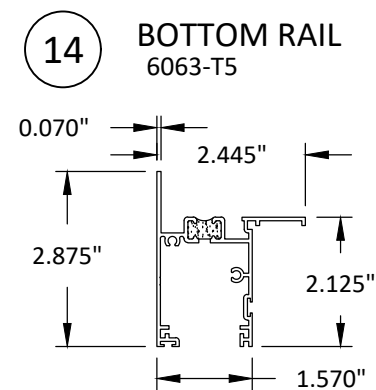
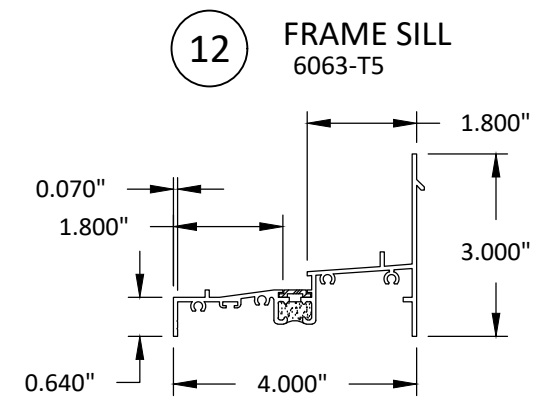
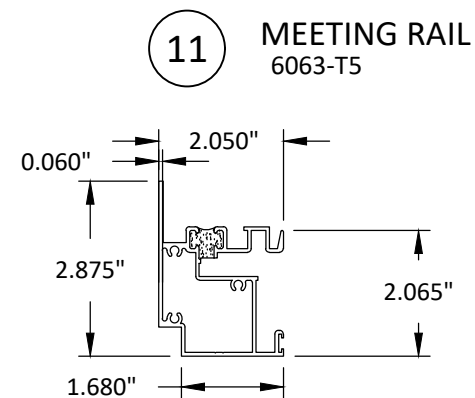
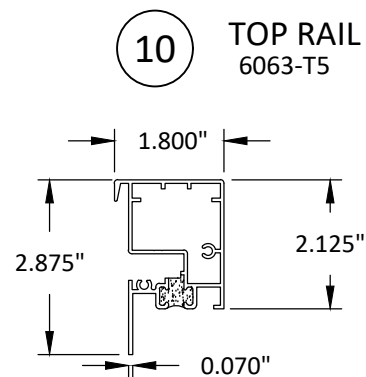
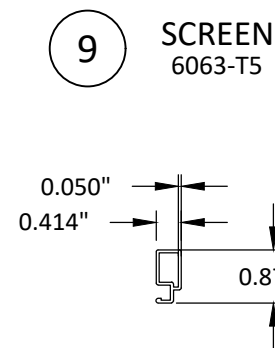
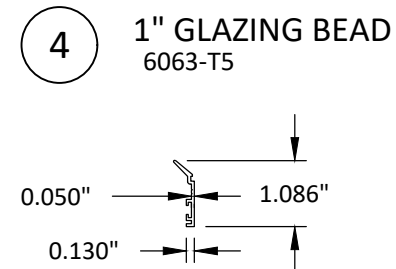
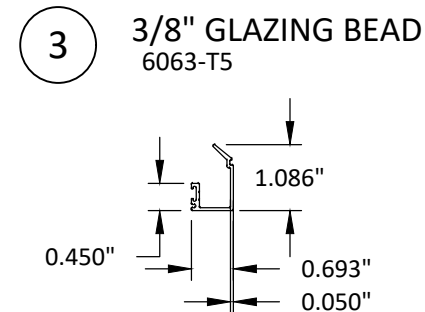
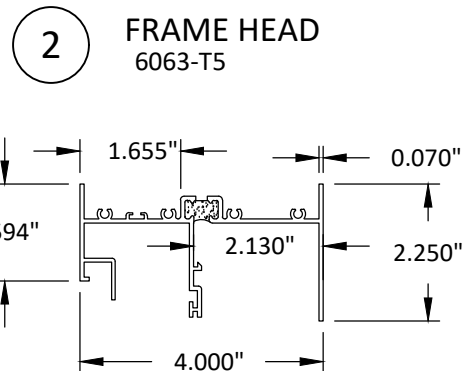
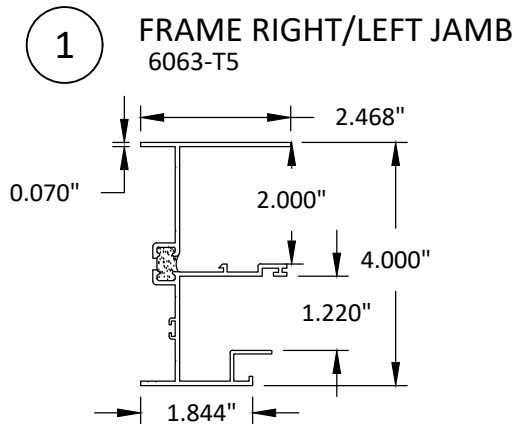
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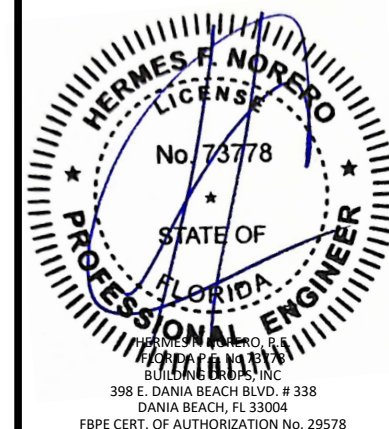
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(WZ3)(IMPACT)
COMPONENTS

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OF 6

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BILL OF MATERIAL				
ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	VENDOR
1	E3553	FRAME - RIGHT/LEFT JAMB	ALUMINUM 6063-T5	ARCADIA, INC.
2	E3551	FRAME - HEAD	ALUMINUM 6063-T5	ARCADIA, INC.
3	E3572	3/8" GLAZING BEAD	ALUMINUM 6063-T5	ARCADIA, INC.
4	E3558	1" GLAZING BEAD	ALUMINUM 6063-T5	ARCADIA, INC.
5	-	SHEAR PLATE	ALUMINUM 6063-T5	ARCADIA, INC.
6	WH308	1/16" X 1/8" SPACER TAPE	FOAM	TB PHILLY
7	P9982	GLAZING WEDGE	EPDM	EPG
8	SSD995	SILICONE SEALANT	SILICONE	TB PHILLY
9	-	SCREEN	ALUMINUM 6063-T5	ARCADIA, INC.
10	E3508	TOP RAIL	ALUMINUM 6063-T5	ARCADIA, INC.
11	E3555	MEETING RAIL	ALUMINUM 6063-T5	ARCADIA, INC.
12	-	WINDOW LOCK	ALUMINUM 6063-T5	ARCADIA, INC.
13	E3552	FRAME SILL	ALUMINUM 6063-T5	ARCADIA, INC.
14	E3509	BOTTOM RAIL	ALUMINUM 6063-T5	ARCADIA, INC.
15	E3507	SIDE RAIL	ALUMINUM 6063-T5	ARCADIA, INC.
16	E3510	LATCH	ALUMINUM 6063-T5	ARCADIA, INC.
17	S3556	SPIRAL BALANCER BRACKET	STAINLESS STEEL	
18		SPIRAL BALANCER		
19	DH356	KEEPER	WHITE BRONZE	
20	DH357	LH SWEEP LATCH	WHITE BRONZE	
21	DH358	LH SWEEP LATCH	WHITE BRONZE	
22	E3554	FRAME INSERT HEAD/JAMB	ALUMINUM 6063-T5	ARCADIA, INC.
23	V3531	HEAD/JAMB INSERT BARRIER	RIGID PVC	



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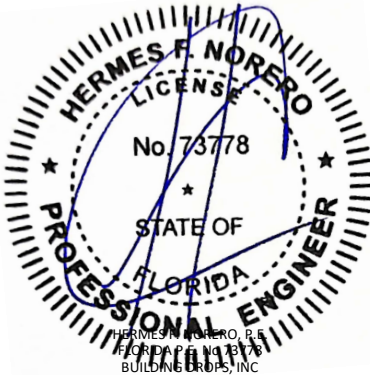
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BILL OF MATERIALS

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6 OF 6