

ES WINDOWS AND DOORS

SERIES ES-V200 H.S. WINDOW (OX, XO)

VINYL, NON-IMPACT, NON-HVHZ

GENERAL NOTES:

1. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORTS BY PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC; TEST REPORT NO. 2836T0010. PERFORMANCE TEST PROTOCOLS AND STANDARDS USED IN TESTING WERE:
1.1. AAMA/WDMA/CSA 101/I.S.2/A440-17.
2. THIS PRODUCT CAN ONLY BE USED OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING FRAMING SUBSTRATES AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
4. 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 LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT ACTING AS THE DESIGN PROFESSIONAL OF RECORD FOR THE PROJECT OF INSTALLATION.
5. WHEN INSTALLED IN LOCATIONS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST,THIS PRODUCT DOES REQUIRE OPENING PROTECTION.
6. SITE CONDITIONS NOT COVERED IN THIS PRODUCT EVALUATION DOCUMENT ARE SUBJECT TO ADDITIONAL ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7. MATERIALS:
7.1. FRAME: RIGID PVC / VINYL BY DECEUNINCK. SEE LATEST DECEUNINCK NORTH AMERICA, LLC M.D. NOTICE OF ACCEPTANCE (N.O.A.) FOR PVC / VINYL CONFORMANCE TO PLASTICS REQUIREMENTS OF THE FLORIDA BUILDING CODE.
8. GLAZING:
8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-16.
8.2. SEE GLAZING DETAILS ON SHEET 7 OF 9.
8.3. THE IGU WAS SET FROM THE EXTERIOR ONTO A BED OF DOWSIL 983 SILICONE SEALANT AND SECURED IN PLACE WITH VINYL GLAZING BEADS.
8.4. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
8.5. ALL SETTING BLOCKS 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.
9. DESIGNATION "O" STANDS FOR FIXED LITE, DESIGNATION "X" STANDS FOR OPERABLE PANEL.

9.1. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOW IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER AND/OR THE INSTALLER.

INSTALLATION NOTES:

1. PRODUCT ANCHORS SHALL BE AS DESIGNATED AND LOCATED AS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. ANCHOR EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING.
2. SEE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 4 FOR TYPE AND GRADE OF ANCHOR, AND/OR MANUFACTURER'S ANCHOR SPECIFICATIONS, INCLUDING MINIMUM NOMINAL SIZE, MINIMUM EMBEDMENT INTO SUBSTRATE AND MINIMUM EDGE DISTANCES.
2.1. EDGE DISTANCES SHALL BE MEASURED FROM CENTERLINE OF ANCHOR TO EDGE OF STRUCTURAL SUBSTRATE EITHER TO THE INTERIOR OR EXTERIOR OF THE FENESTRATION PRODUCT.
2.2. MINIMUM EMBEDMENT SHALL BE BASED ON PENETRATION INTO MAIN WIND FORCE RESISTING SYSTEM SUBSTRATE.
3. SEE SHEET 5 AND 6 FOR SPECIFIC ANCHOR INSTALLATION DETAILS.
4. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
5. ANCHOR QUANTITIES AND SPACING / EMBEDMENT AND EDGE DISTANCE
5.1. THE NUMBER OF INSTALLATION ANCHORS IS BASED ON THE MAXIMUM END DISTANCE (ED) AND THE MAXIMUM ON CENTER (O.C.) SPACING PLACEMENT OF ANCHORS IN ACCORDANCE WITH ELEVATIONS ON SHEET 2 AND 3.
5.2. END DISTANCES AND O.C. SPACINGS LESS THAN THAT SHOWN IN THE ELEVATIONS ON SHEETS 2 AND 3 ARE ACCEPTABLE.
5.3. FOR WINDOW SIZES SMALLER THAN THOSE SHOWN, ANCHOR QUANTITIES CAN BE REDUCED WHILE MAINTAINING END DISTANCE AND O.C. SPACING REQUIREMENTS AS FOLLOWS.
5.3.1. CLUSTERED ANCHOR QUANTITIES CANNOT BE REDUCED.
5.3.2. END DISTANCE ANCHORS CANNOT BE ELIMINATED.
5.3.3. WHEN ON CENTER (O.C.) SPACING IS REDUCED TO 50% OF THAT SHOWN, O.C. SPACED ANCHOR QUANTITIES MAY BE REDUCED WHILE MAINTAINING MAX. O.C. SPACING SHOWN.
5.4. ANCHOR QUANTITIES AND SPACINGS SHOWN ARE BASED ON THE LOWER OF ANCHOR SPACING USED IN TESTING OR REQUIRED BY LOADING AT DESIGN PRESSURE.
5.5. SEE SPACING, EMBEDMENT AND EDGE DISTANCE REQUIREMENTS IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 4.
6. MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF WOOD COMPOSITE, HIGH DENSITY PLASTIC OR SIMILAR LOAD BEARING MATERIAL.
7. FOR CONCRETE BLOCK APPLICATIONS DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS.
8. 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 IN THE *INSTALLATION ANCHOR SCHEDULE* ON SHEET 4.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2 & 3	ELEVATION & INSTALLATION ANCHOR LAYOUTS
4	ANCHOR SCHEDULE
5 & 6	ANCHOR DETAILS
7	GLASS CHART & GLAZING DETAILS
8	COMPONENTS
9	BILL OF MATERIALS & SECTIONS

PERFORMANCE RATING					
MAXIMUM WINDOW SIZE	INSTALLATION TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)		IMPACT RATING
74" x 76" (OX, XO) HEAVY REINFORCEMENT IN MEETING STILES	THROUGH FRAME AND NAILING FIN	G2	(+/- 55.0) W/T.P.S. KODISPACE 4G	(+/- 60.0) W/HELIMA ALUM. BOX SPACER	NONE

NOTES: SEE GLASS DETAILS ON SHEET 7 FOR GLASS AND SPACER OPTIONS.

This item has been digitally signed and sealed by Robert J. Amoruso, PE on the date adjacent to the seal. Signature must be verified on any electronic copies.

ES WINDOWS & DOORS
3550 NW 49TH STREET
MIAMI, FLORIDA 33142

SERIES ES-V200 NON-IMPACT H.S. SLIDING WINDOW
INSTALLATION ANCHORAGE DETAILS

REVISION DESCRIPTION	DATE				
	BY				
NO.					

DATE: 03/06/2026	DWN BY: JM	CHK BY: RIA	SCALE: NONE
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ROBERT J. AMORUSO, P.E. #49752
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Digitally signed
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Amoruso
Date: 2026.04.29
17:06:53 -04'00'

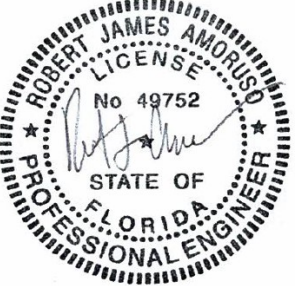
PROJECT#: ACE-2025-207
DWG/REV: SCS-0052, Rev 0
SHT: 1 of 9

SERIES ES-V200 NON-IMPACT H.S. SLIDING WINDOW
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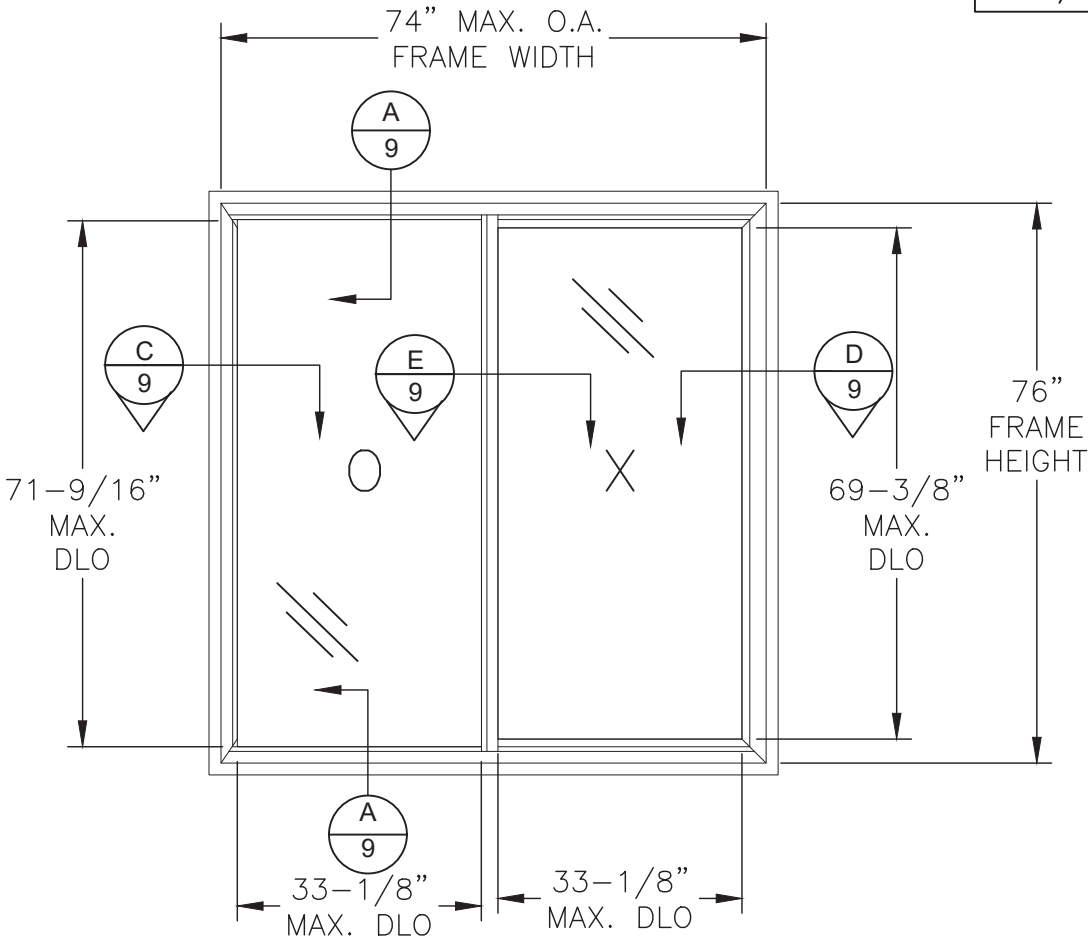


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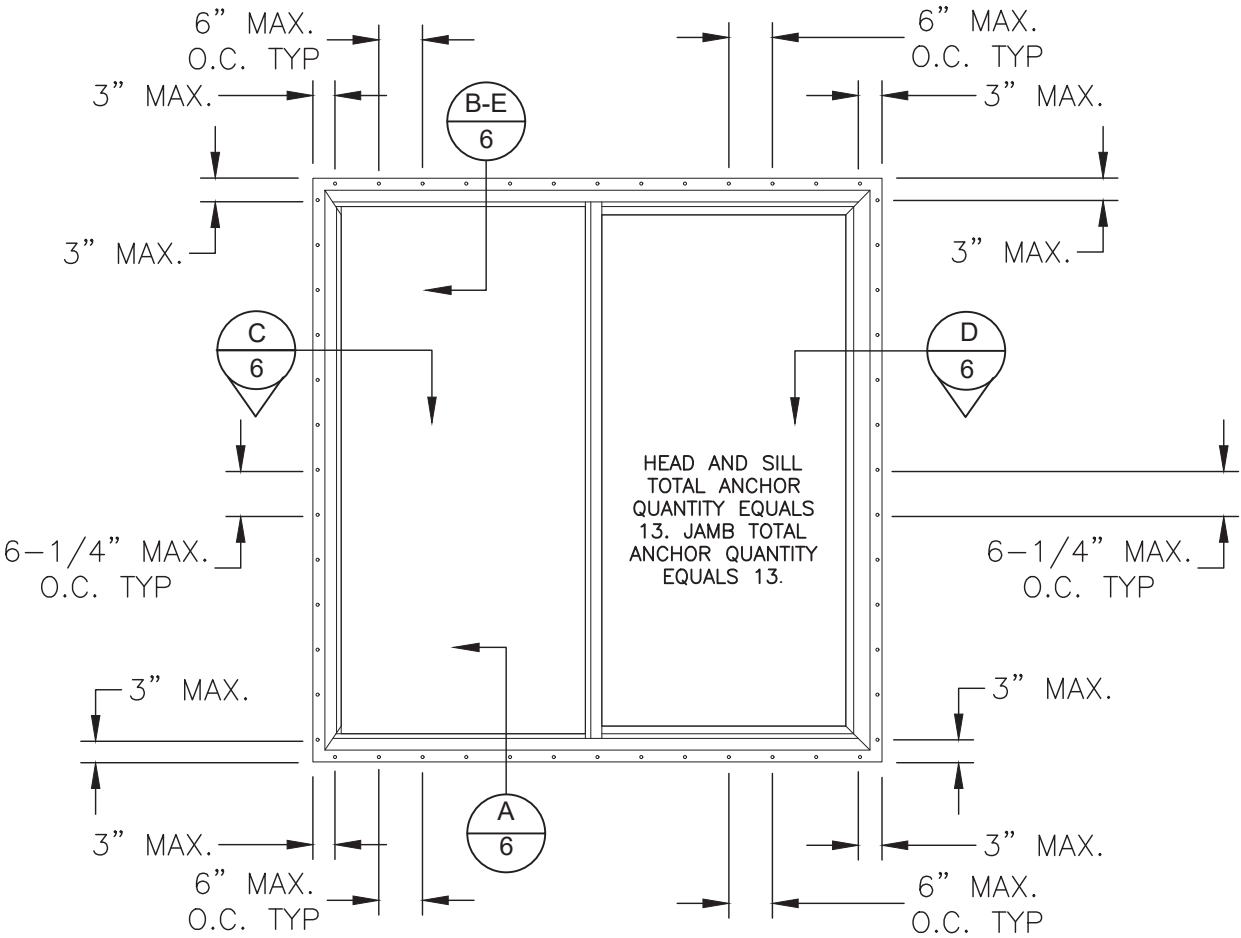
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SHT:	2 of 9

ANCHOR LAYOUT ELEVATIONS
NAILING FIN FRAME

ANCHOR LOCATIONS HAVE A
+/-1/2" TOLERANCE



ELEVATION LAYOUT
H.S. SLIDING WINDOW
NAILING FIN FRAME
(XO-OX)



ANCHOR LAYOUT
NAILING FIN INSTALLATION

SMALLER WINDOW SIZES
SEE INSTALLATION NOTES 5.3 ON SHEET 1

SERIES ES-V200 NON-IMPACT H.S. SLIDING WINDOW
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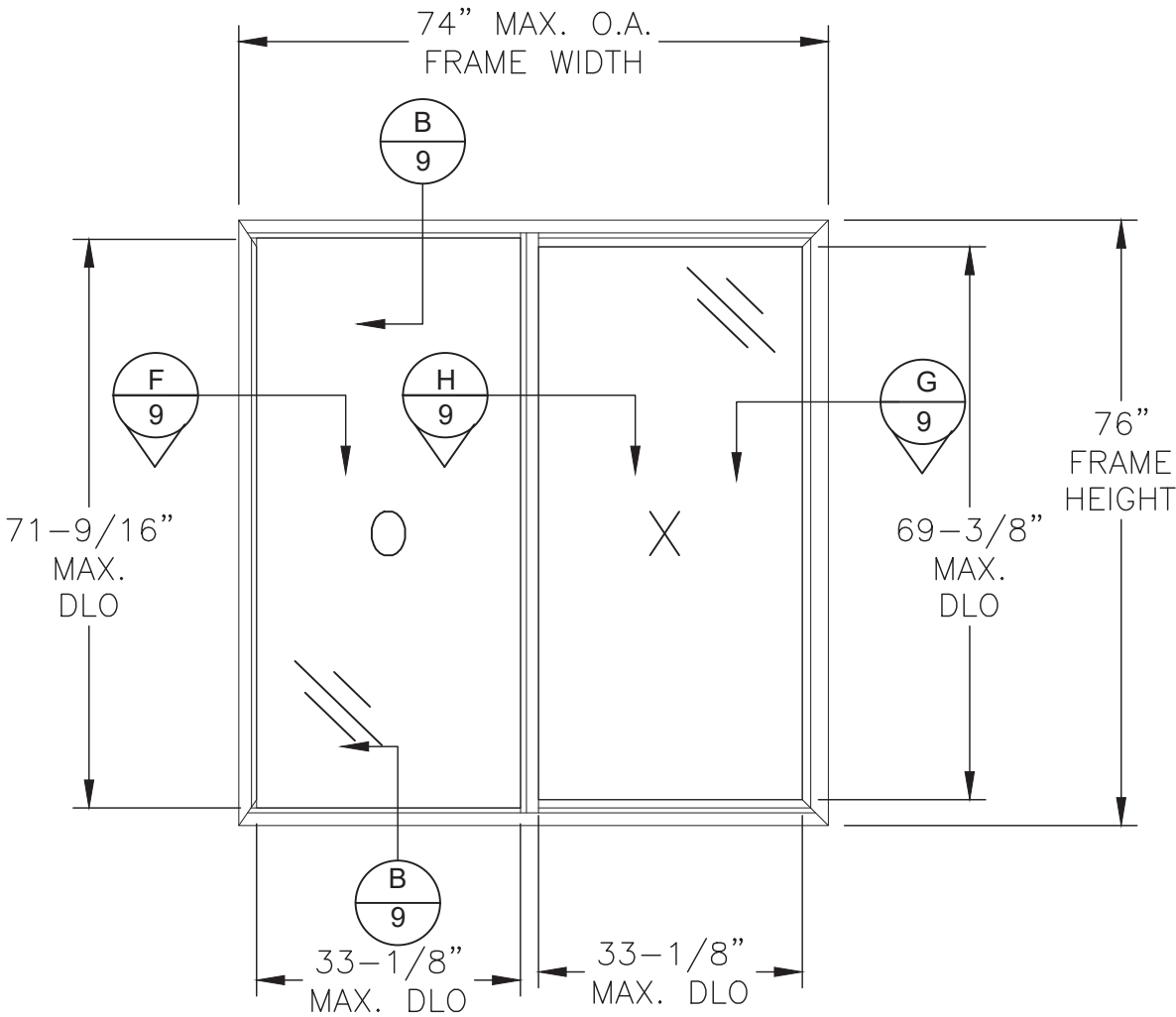


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SHT:	3 of 9

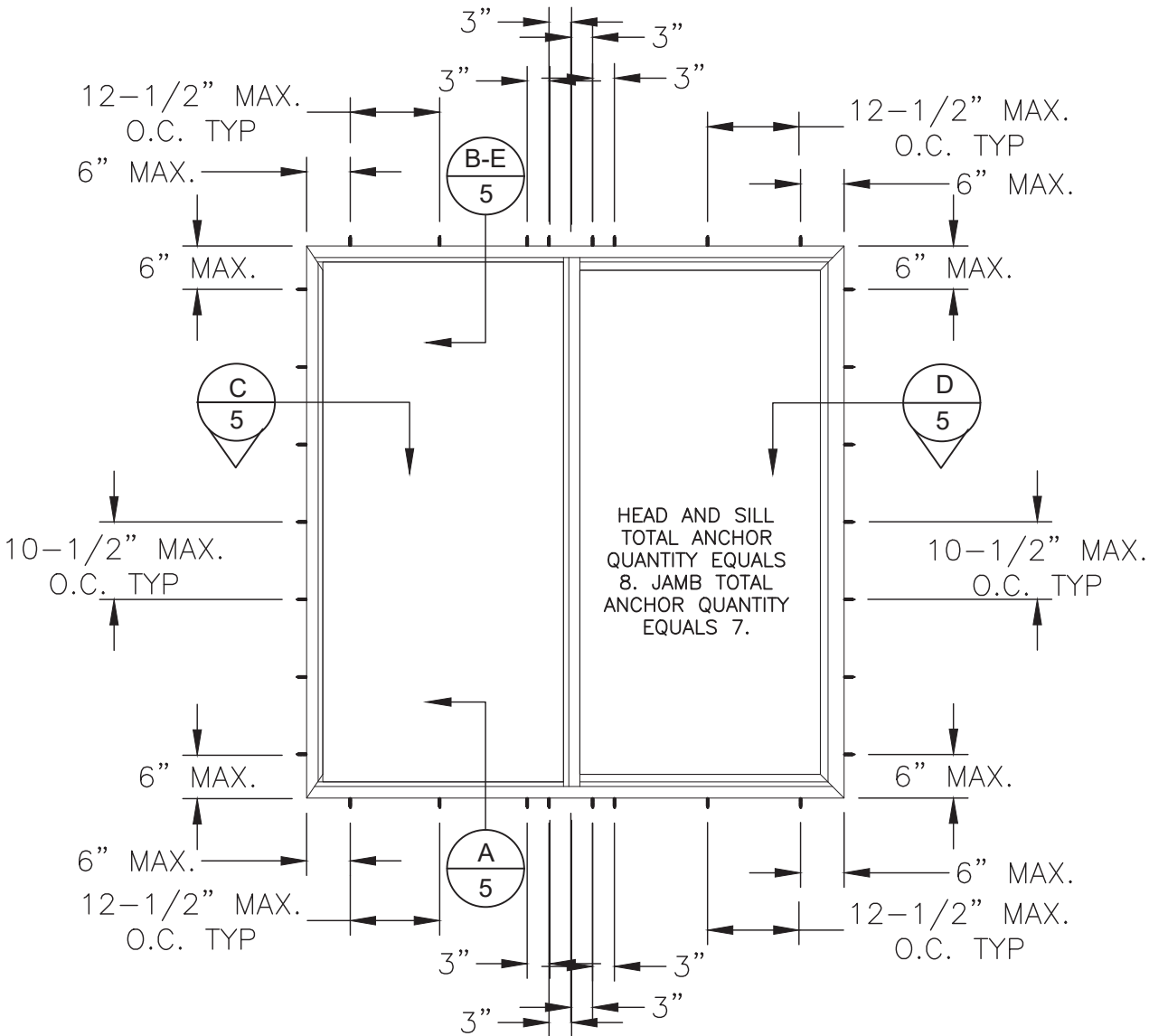
**ANCHOR LAYOUT ELEVATIONS
THROUGH (RETROFIT) FRAME**

ANCHOR LOCATIONS HAVE A
 $\pm 1/2$ " TOLERANCE



ELEVATION LAYOUT
H.S. SLIDING WINDOW
EQUAL LEG FRAME
(XO-OX)

SMALLER WINDOW SIZES
SEE INSTALLATION NOTES 5.3 ON SHEET 1



ANCHOR LAYOUT
FRAME INSTALLATION

ANCHOR SCHEDULE

ANCHOR SCHEDULE							
ANCHORING METHOD	SUBSTRATE	SCREW HEAD TYPE	SCREW SIZE	MANUFACTURER AND/OR SPECIFICATION (1)	EMBEDMENT (IN)	EDGE DISTANCE (IN)	ANCHOR CAPACITIES BASED ON THE FOLLOWING SUBSTRATE STRENGTHS
THROUGH FRAME	CONCRETE	HEX OR PAN HEAD PREFERRED.	1/4"	ITW TAPCONS	1-1/2"	1-1/2"	MIN. 2500 PSI CONCRETE
	MASONRY (BLOCK/CMU)	FLAT HEAD ACCEPTABLE.	1/4"	ITW TAPCONS	1"	2"	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN
	WOOD	PAN HEAD PREFERRED. FLAT HEAD ACCEPTABLE.	NO. 14	ANSI B18.6.1 (WOOD SCREW)	1-1/2"	1"	WOOD WITH A MINIMUM SPECIFIC GRAVITY 0.42 (NON-HVHZ)
			NO. 14	ASME B18.6.4 (TAPPING SCREW)	1-1/2"	1"	
	STEEL STUD		1/4"	ASME B18.6.4 (GRADE 5 TAPPING SCREW) Type AB Threads (requires pilot hole) or Self-Drilling (drill shaped point)	At least three full threads protrude into the interior of the steel stud.	3/8"	STEEL STUD, MIN. 20 GA. 33 MIL., 0.0329 INCH Fy = 33 KSI MIN. AND Fu = 45 KSI MIN.
NAILING FIN	WOOD	TRUSS OR WASHER HEAD PREFERRED.	NO. 10	ANSI B18.6.1 (WOOD SCREW)	1-3/8"	3/4"	WOOD WITH A MINIMUM SPECIFIC GRAVITY 0.42 (NON-HVHZ)
			NO. 10	ASME B18.6.4 (TAPPING SCREW)	1-3/8"	3/4"	
	STEEL STUD	PAN HEAD ACCEPTABLE.	NO.10	ASME B18.6.4 (GRADE 5 TAPPING SCREW) Type AB Threads (requires pilot hole) or Self-Drilling (drill shaped point)	At least three full threads protrude into the interior of the steel stud.	3/8"	STEEL STUD, MIN. 20 GA. 33 MIL., 0.0329 INCH Fy = 33 KSI MIN. AND Fu = 45 KSI MIN.
		FLAT HEAD NOT ACCEPTABLE.					
NOTES:							
(1) ITW (ADVANCED THREADFORM TECHNOLOGY) TAPCONS WILL BE USED FOR CONCRETE/MASONRY INSTALLATION.							

ES WINDOWS & DOORS
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SERIES ES-V200 NON-IMPACT H.S. SLIDING WINDOW INSTALLATION ANCHORAGE DETAILS	DATE				
	BY				
	REVISION DESCRIPTION				
	NO.				

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CHK BY: RJA
SCALE: NONE

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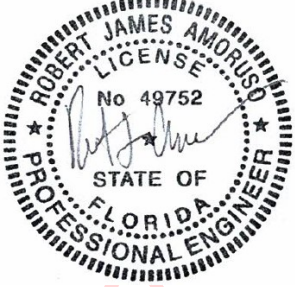
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SERIES ES-V200 NON-IMPACT H.S. SLIDING WINDOW
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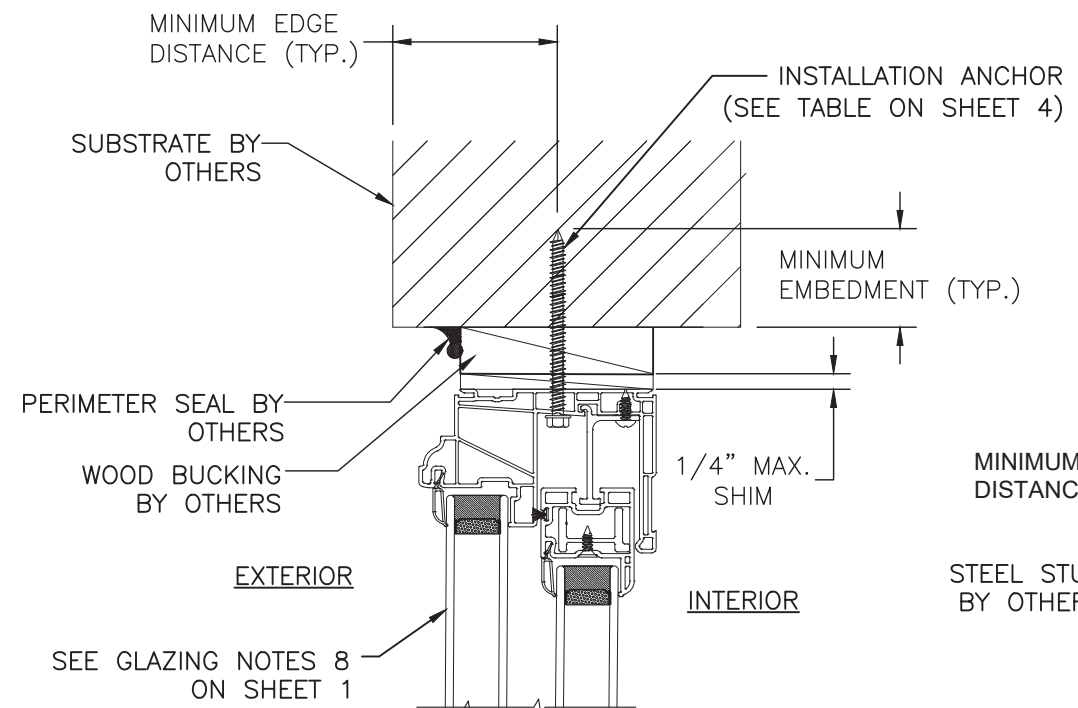
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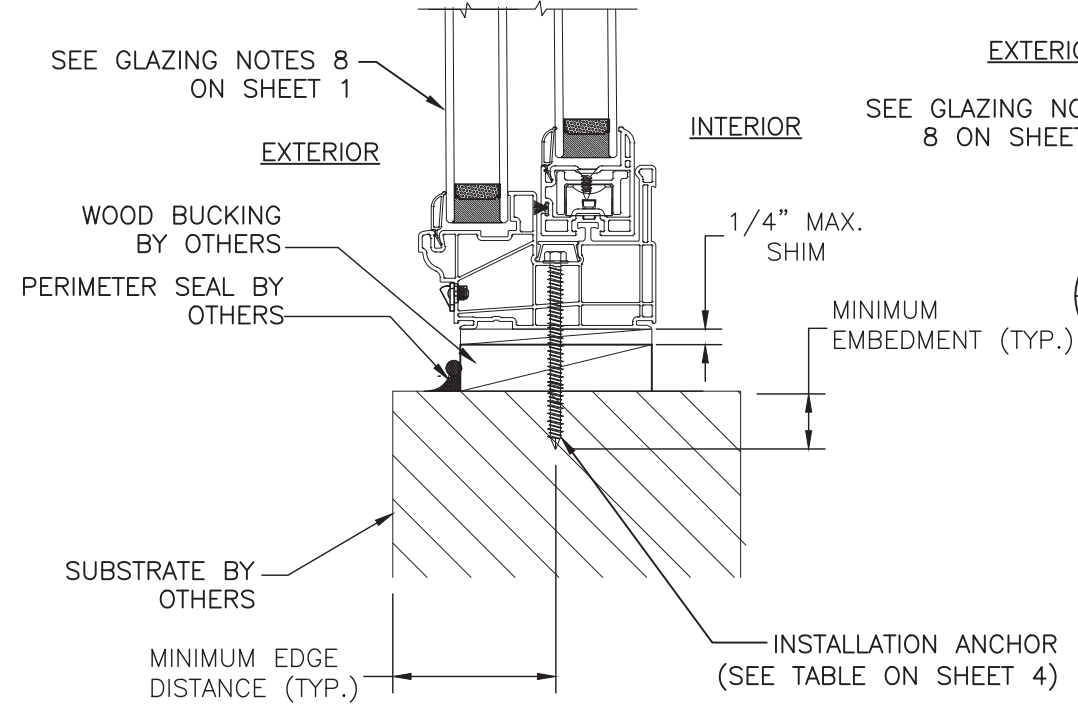
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SHT:	5 of 9

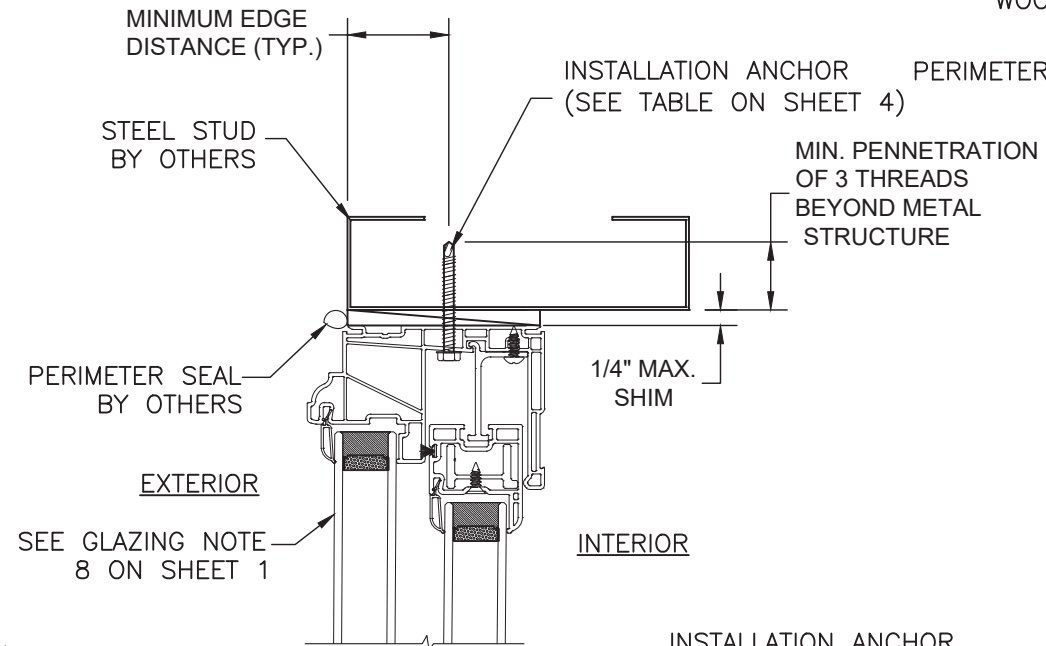
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ANCHOR DETAIL



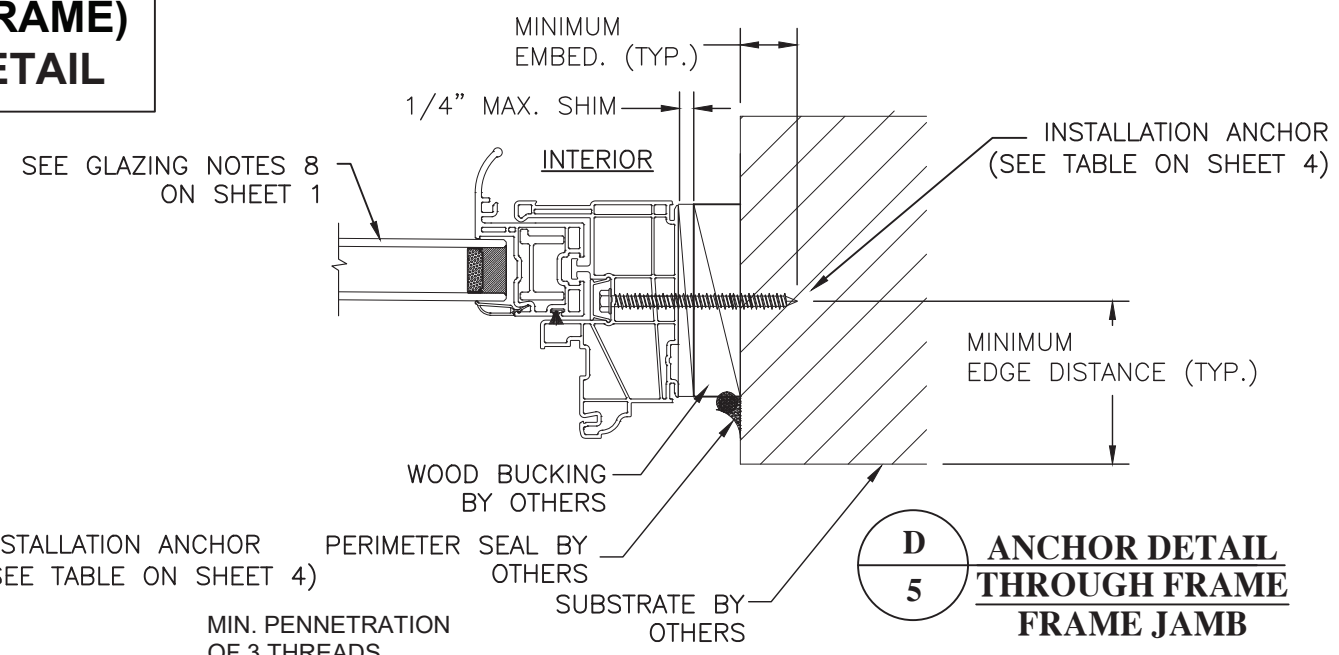
B
5 ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD



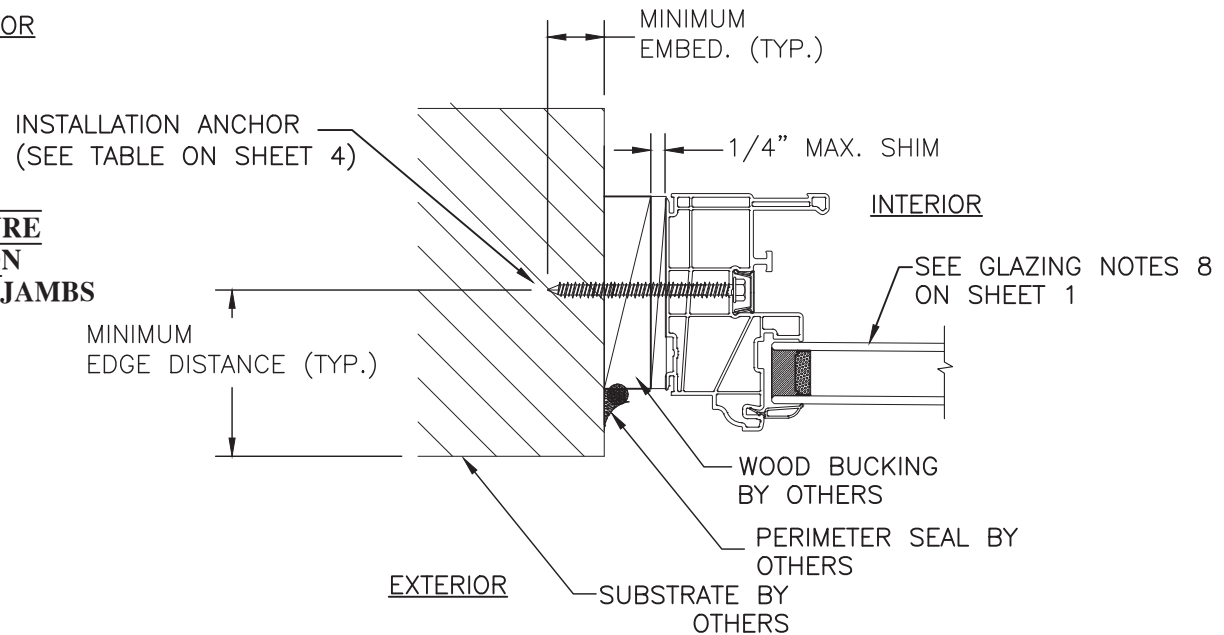
A
5 ANCHOR DETAIL
THROUGH FRAME
FRAME SILL



E
5 VERTICAL SECTION
STEEL STUD STRUCTURE
FRAME INSTALLATION
HEAD SHOWN, SILL & JAMBS
SIMILAR



D
5 ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB



C
5 ANCHOR DETAIL
THROUGH FRAME
FIXED FRAME JAMB

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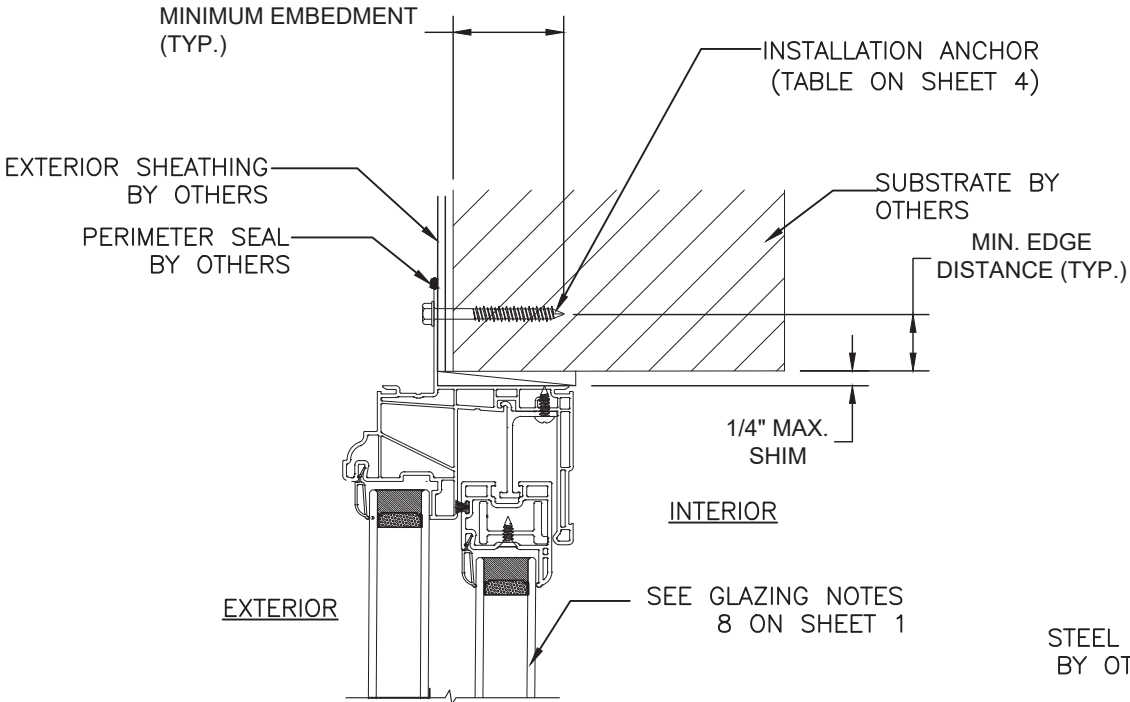
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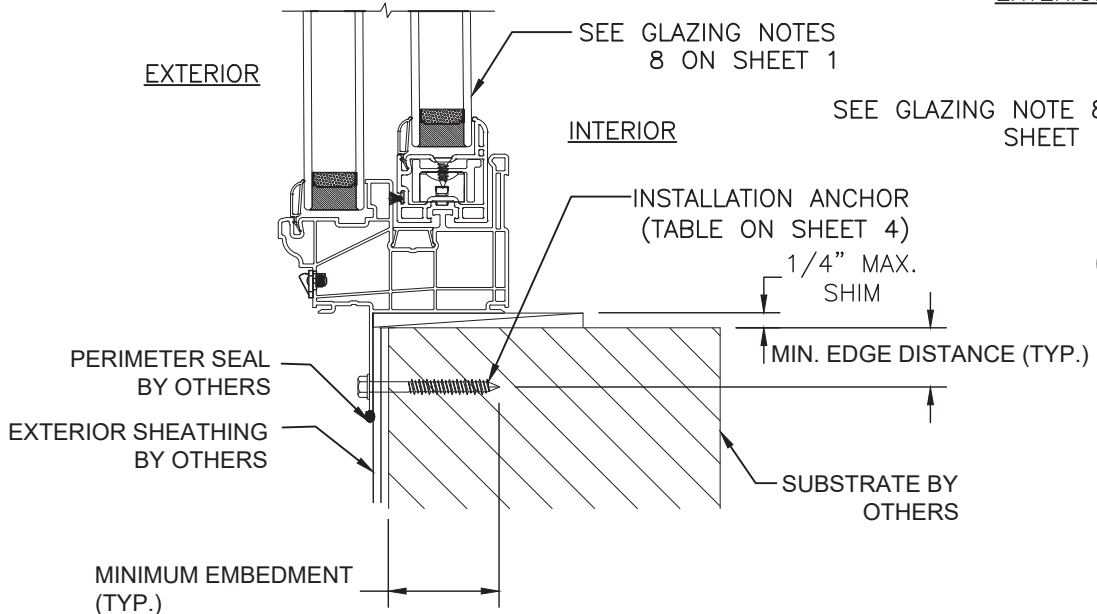
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SHT:	6 of 9

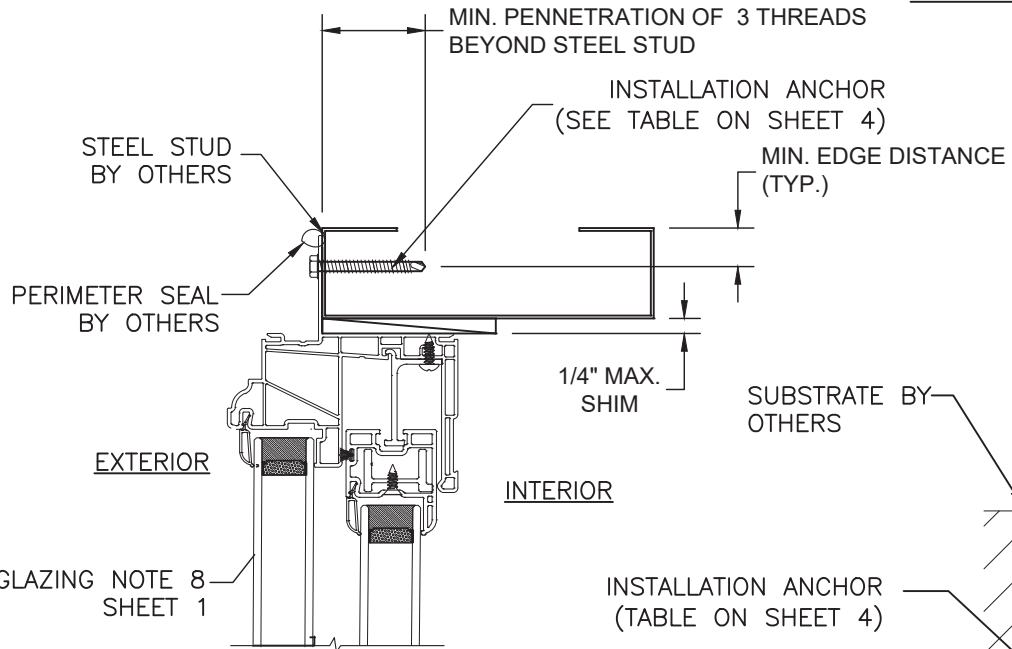
FIN FRAME
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ANCHOR DETAIL



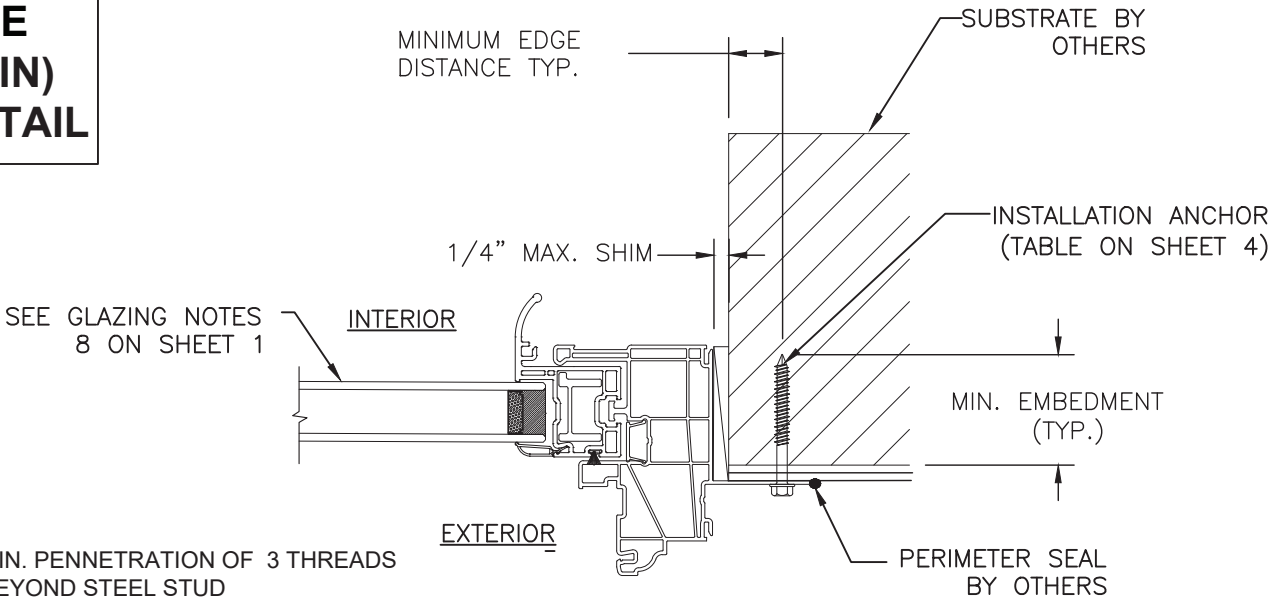
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6
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NAILING FIN
FRAME HEAD



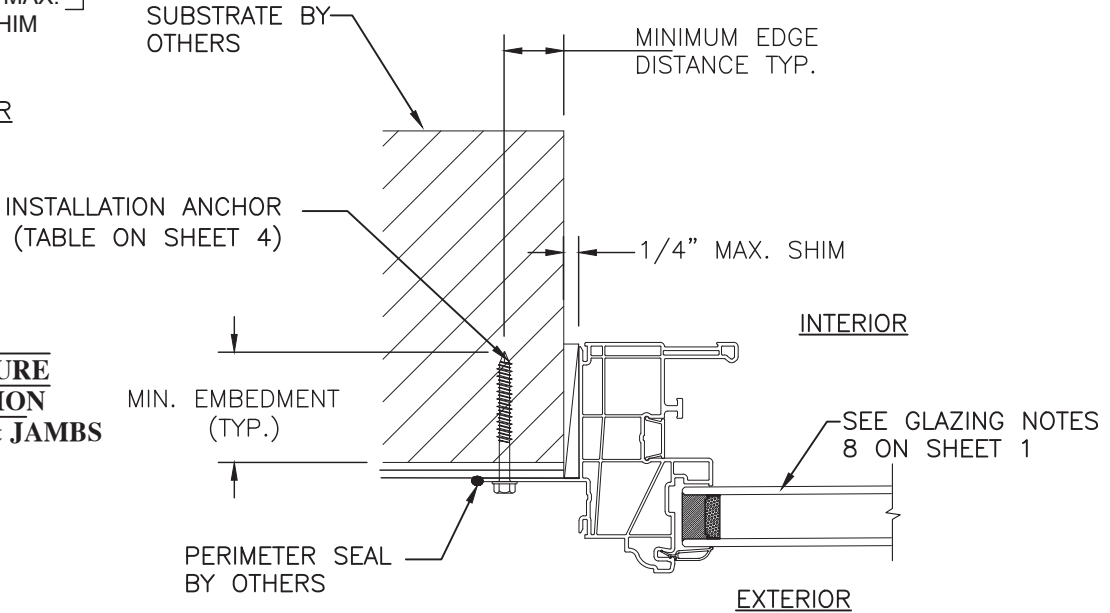
A
6
ANCHOR DETAIL
NAILING FIN
FRAME SILL



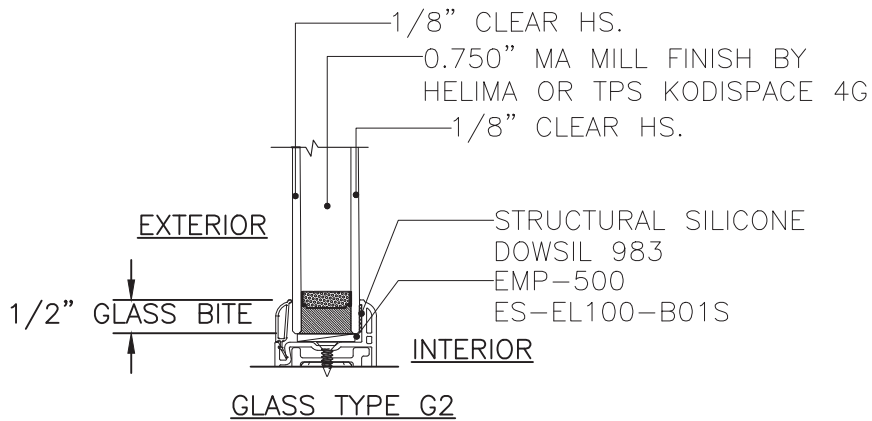
E
6
VERTICAL SECTION
STEEL STUD STRUCTURE
NAIL FIN INSTALLATION
HEAD SHOWN, SILL & JAMBS
SIMILAR



D
6
ANCHOR DETAIL
FRAME JAMB
NAILING FIN



C
6
ANCHOR DETAIL
FIXED FRAME JAMB
NAILING FIN



GLASS NOTES:
ANN = ANNEALED
HS = HEAT STRENGTHENED

IGU OVERALL THICKNESS AND AIR SPACE GAP

- 1) AIR SPACE GAP MAY BE DECREASED WITHOUT IMPACTING STRENGTH OF THE GLAZED UNIT.
- 2) DECREASING THE AIR GAP WILL RESULT IN A DECREASE IN THE OVERALL THICKNESS OF THE GLAZING UNIT.
- 3) THE THICKNESS OF GLASS LITES CAN BE INCREASED BUT CANNOT BE DECREASED. GLASS TREATMENT, SPECIFICALLY AND ONLY FROM ANNEALED TO TEMPERED, OR ANNEALED TO HEAT STRENGTHENED, OR HEAT STRENGTHENED TO TEMPERED (AS APPLICABLE) IS ALLOWED.
- 4) SNAP-IN GLAZING BEAD APPROPRIATE FOR THE OVERALL GLAZING UNIT THICKNESS WILL BE USED.

TABLE 1		
GLASS TYPE	MAX. DESIGN PRESSURE (PSF)	INSULATING GLASS
		SEE CHART BELOW FOR ALLOWABLE GLASS OPTIONS PER WINDOW SIZES
G2	+/- 60.0	1" INSULATED GLASS: 1/8" HS. EXT. + 0.750" AIR SPACE + 1/8" HS. INTERIOR

SPACER NOTES:
* TPS KODISPACE 4G-MAXIMUM (+/-) DEISGN PRESSURE 55.0 PSF

MAXIMUM DESIGN PRESSURE CHART ASTM E-1300 (SEE TABLE 1 FOR MAX. PSF FOR EACH GLASS TYPE LISTED)													
HEIGHT (IN.)	WINDOW DIMENSIONS	(SEE TABLE 1 FOR GLASS DESCRIPTIONS)											
		WIDTH (IN.)											
		32	36	40	44	48	52	56	60	64	68	72	74
	32	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	36	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	40	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	44	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	46	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	48	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	52	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	56	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	60	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	63	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	66	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	70	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	74	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2
	76	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2	G2

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INSTALLATION ANCHORAGE DETAILS

DATE

BY

REVISION DESCRIPTION

NO.

DATE

DWN BY:

CHK BY:

SCALE:

03/06/2026

JM

RA

NONE

ROBERT J. AMORUSO, P.E. #49752
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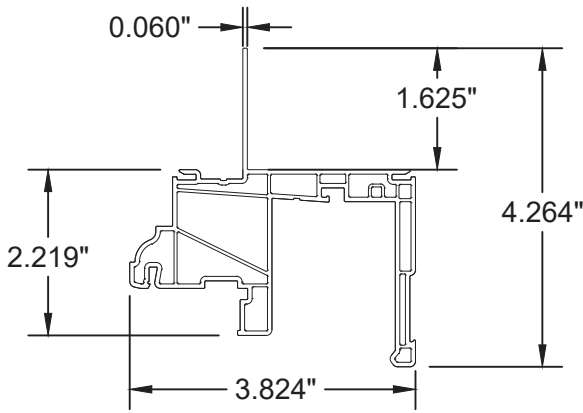
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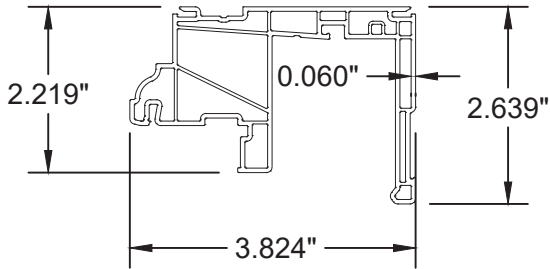
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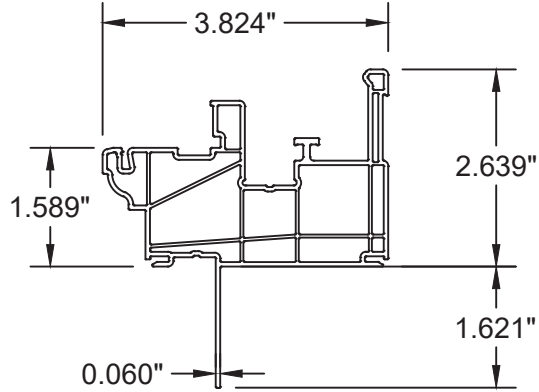
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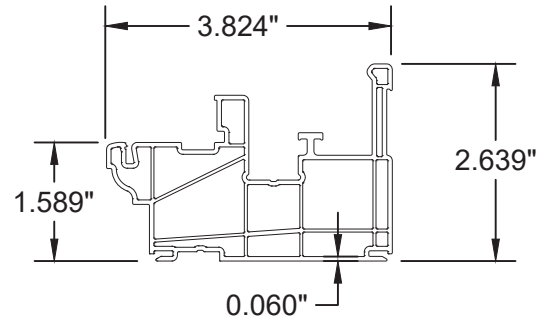
① MAIN FRAME HEAD/JAMB/VERTICAL
EQUAL LEG UPVC / NAIL FIN-4743



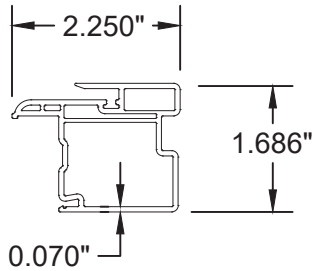
② MAIN FRAME HEAD/JAMB/VERTICAL
EQUAL LEG UPVC / EQUAL-4753



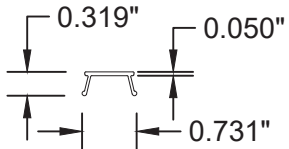
③ MAIN FRAME SILL
NAIL FIN UPVC-4742



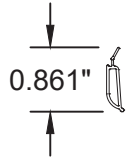
④ MAIN FRAME SILL
EQUAL UPVC-4752



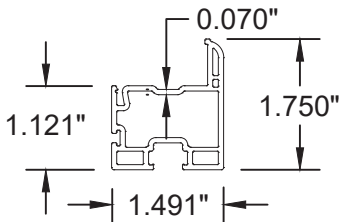
⑤ FIXED MEETING RAIL
UPVC-4719



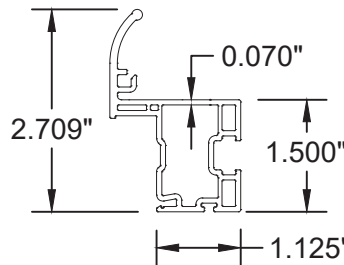
⑥ SCREW COVER
UPVC-4723



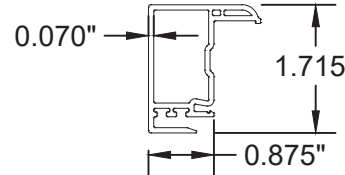
⑦ GLAZING BEAD
UPVC-5464



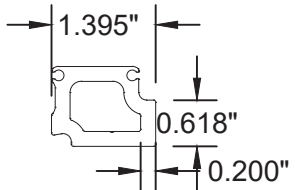
⑧ MAIN SASH
UPVC-5539



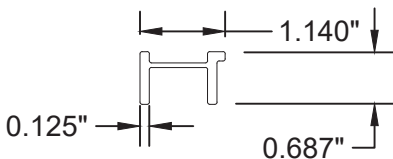
⑨ PULL JAMB SASH
UPVC-4721



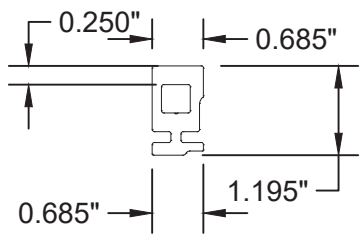
⑩ LOCK RAIL
UPVC-5542



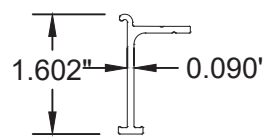
⑪ FIXED MEETING RAIL
H.D. REINFORCEMENT
ALUMINUM-V200-002



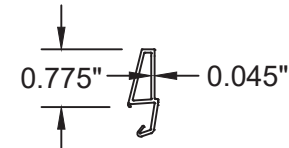
⑫ TOP/BOTTOM/VERTICAL
REINFORCEMENT
ALUMINUM-DECE-004



⑬ LOCK STILE
H.D. REINFORCEMENT
ALUMINUM-V200-001



⑭ SLIDER TRACK TOP
REINFORCEMENT
ALUMINUM-DECE-007



⑰ SILL RISER-EXTENSION
UPVC-R746-ES

