

ES WINDOWS AND DOORS
SERIES ES-V200 H.S. WINDOWS (XOX)-QHQ
VINYL, IMPACT, 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. 2836T0013, SIGNED AND SEALED BY ZACHARY R. PRIEST, FLORIDA P.E. PERFORMANCE TEST PROTOCOLS AND STANDARDS USED IN TESTING WERE:
1.1. TAS 202-94, TAS 201-94 & 203-94.
1.2. AAMA/WDMA/CSA 101/I.S.2/A440-17.
1.3. ASTM E1886-19 AND E1996-20.
2. THIS PRODUCT CAN BE USED INSIDE AND 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 NOT 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.
7.2. EASTMAN SAFLEX 0.090" PVB PER LATEST M.D. NOTICE OF ACCEPTANCE (N.O.A.).
8. GLAZING:
8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-16.
8.2. SEE GLAZING DETAILS ON SHEET 8 OF 8.
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.
10. 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.

TABLE OF CONTENTS	
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1	GENERAL & INSTALLATION NOTES
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5 & 6	ANCHOR DETAILS
7	COMPONENTS
8	B.OM., GLAZING DETAIL & SECTIONS

PERFORMANCE RATING					
MAXIMUM WINDOW SIZE	INSTALLATION TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)		IMPACT RATING
120" x 63" (XOX) HEAVY REINFORCEMENT IN MEETING STILES	THROUGH FRAME AND NAILING FIN	G5	(+/- 50.0) W/O SILL RISER	(+/- 60.0) W/SILL RISER	LARGE MISSILE IMPACT (HVHZ)
					MISSILE LEVEL D WIND ZONE 3 (NON-HVHZ)
NOTE THAT PRODUCT TESTED TO HVHZ PROTOCOLS TAS 201, TAS 202 AND TAS 203 ARE APPLICABLE TO BOTH HVHZ AREAS AND AREAS OUTSIDE THE HVHZ IN FLORIDA.					

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.

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 L.M. IMPACT H.S. SLIDING WINDOW INSTALLATION ANCHORAGE DETAILS	DATE				
	BY				
	REVISION DESCRIPTION				
NO.					

DATE: 03/10/2026	DWN BY: JM	CHK BY: RIA	SCALE: NONE
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ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



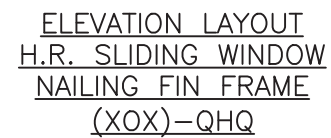
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by Robert J
Amoruso
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PROJECT#:	ACE-2025-207
DWG/REV:	SCS-0051, Rev 0
SHT:	1 of 8

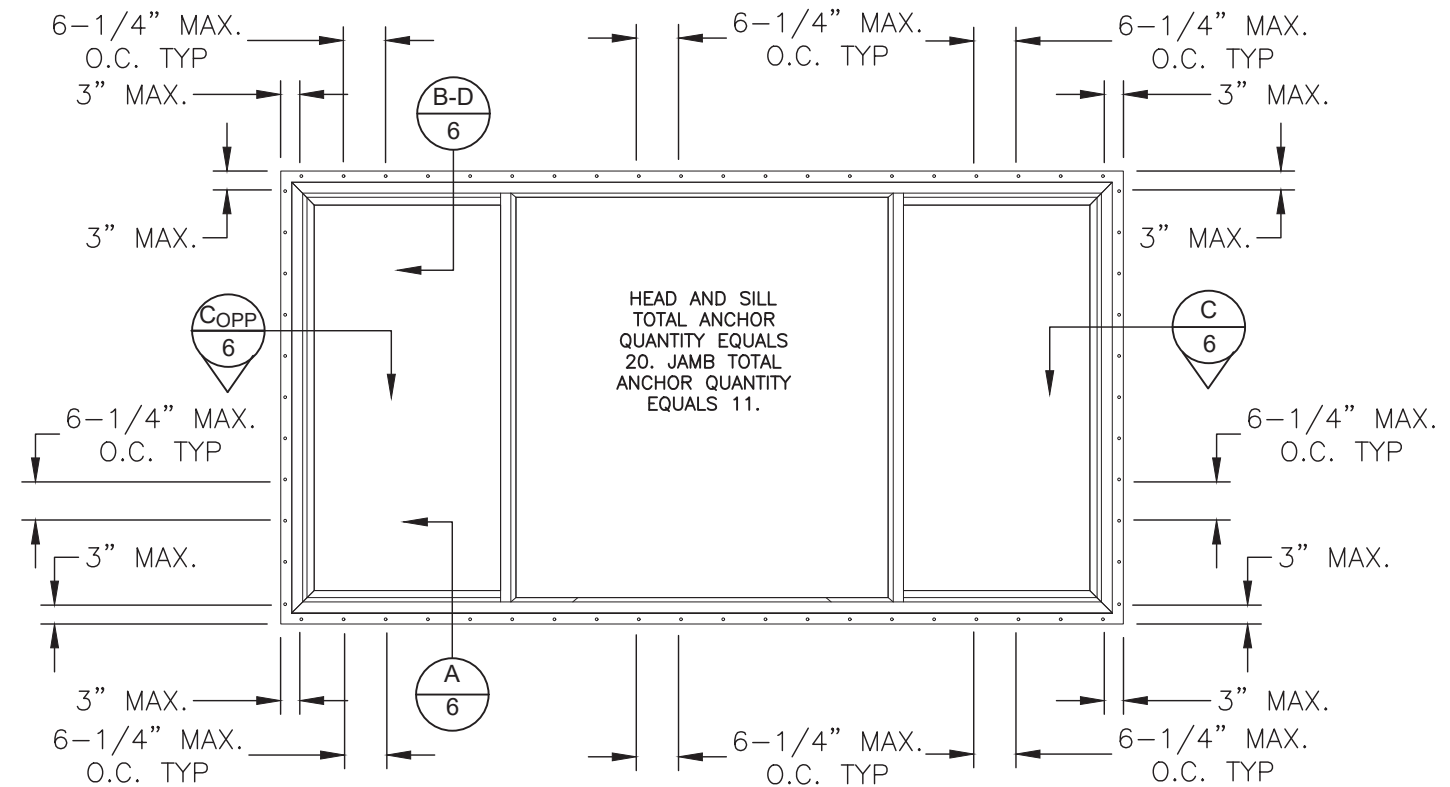


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ANCHOR LOCATIONS HAVE A
+/-1/2" TOLERANCE



SMALLER WINDOW SIZES
SEE INSTALLATION NOTES 5.3 ON SHEET 1



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

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226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

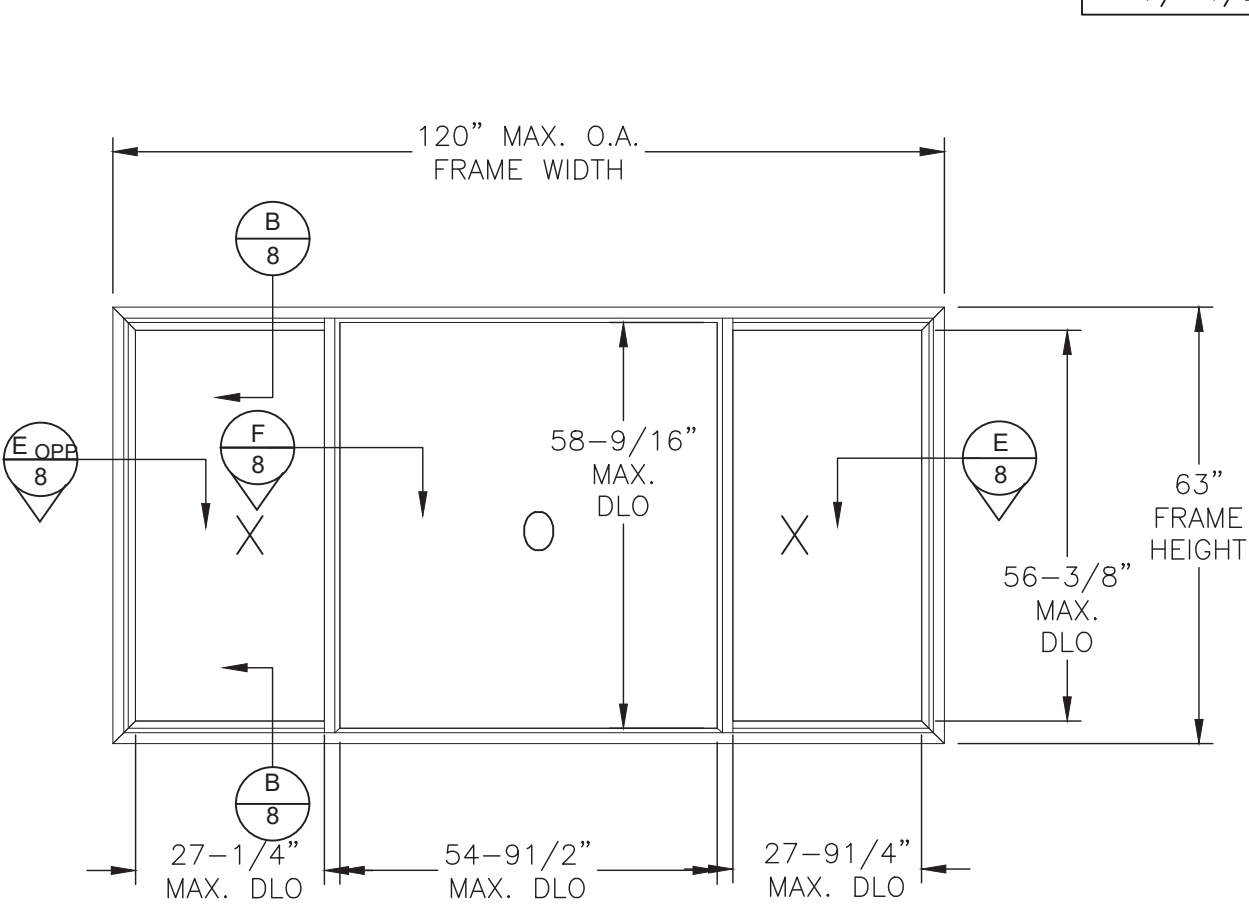


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SHT:	3 of 8

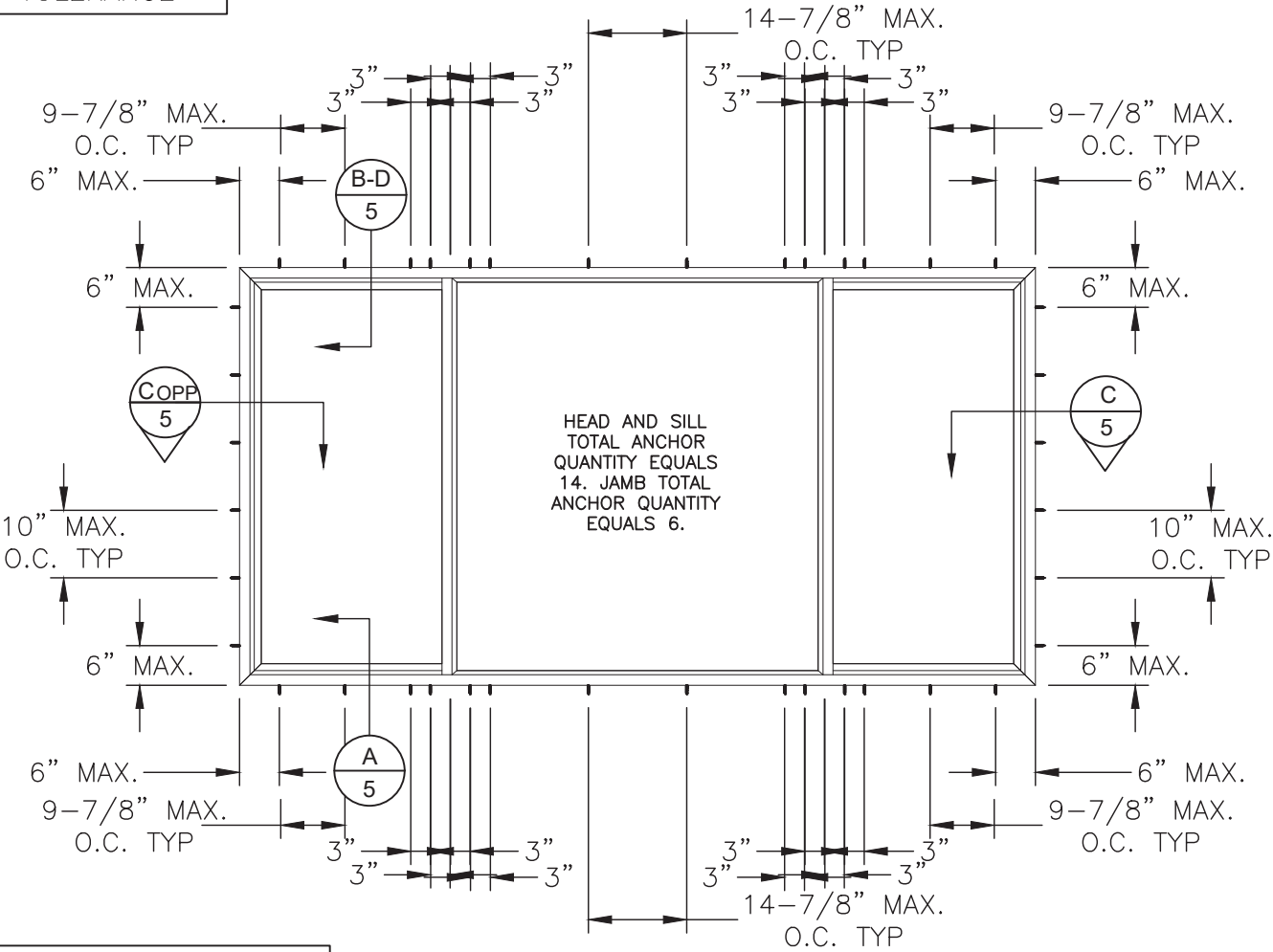
ANCHOR LAYOUT ELEVATIONS
THROUGH (RETROFIT) FRAME

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



ELEVATION LAYOUT
H.R. SLIDING WINDOW
EQUAL LEG FRAME
(XOX)-QHQ

SMALLER WINDOW SIZES
SEE INSTALLATION NOTES 5.3 ON SHEET 1



ANCHOR LAYOUT
THROUGH 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.	NO. 14	ANSI B18.6.1 (WOOD SCREW)	1-1/2"	1"	WOOD WITH A MINIMUM SPECIFIC GRAVITY 0.42 (NON-HVHZ) AND 0.55 (HVHZ)
			NO. 14	ASME B18.6.4 (TAPPING SCREW)	1-1/2"	1"	
	STEEL STUD	FLAT HEAD ACCEPTABLE.	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) AND 0.55 (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
3550 NW 49TH STREET
MIAMI, FLORIDA 33142

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

DATE

03/10/2026

DWN BY

JM

CHK BY

RJA

SCALE

NONE

REVISION DESCRIPTION

NO.

DATE

BY

ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

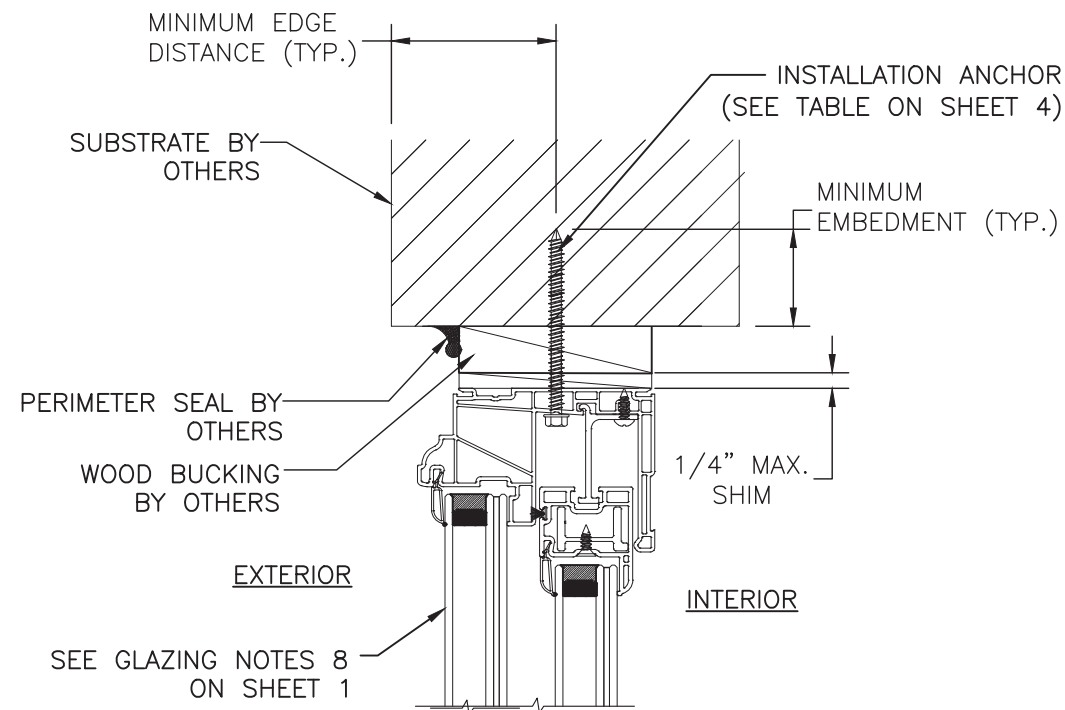


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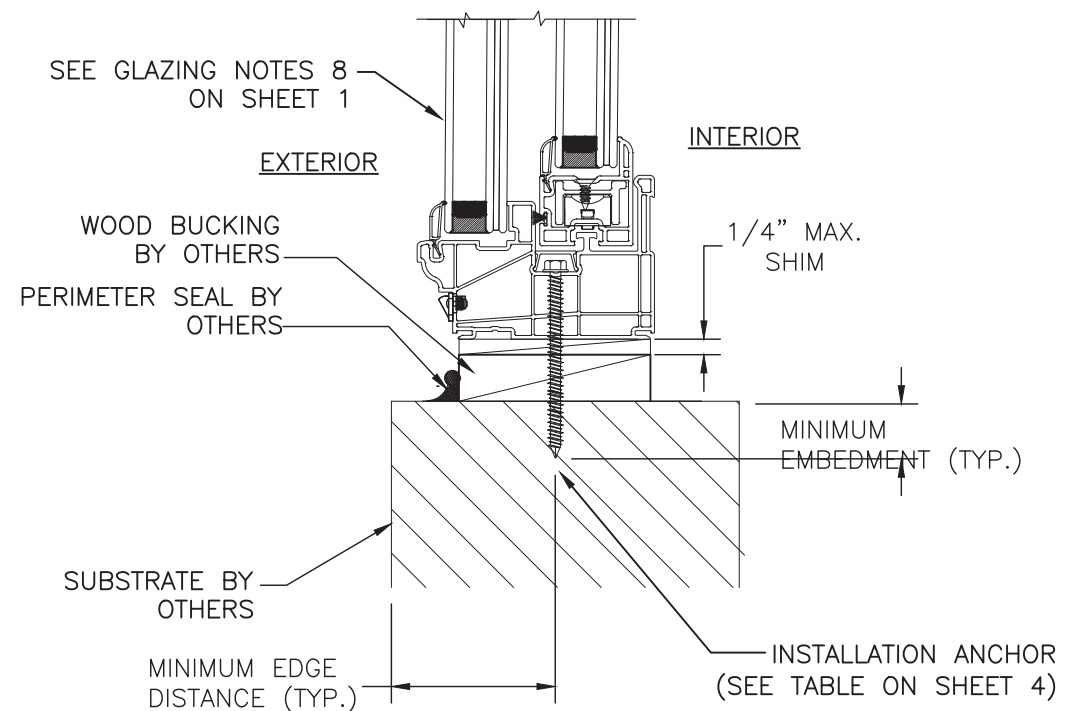
PROJECT#: ACE-2025-207

DWG/REV: SCS-0051, Rev 0

SHT: 4 of 8

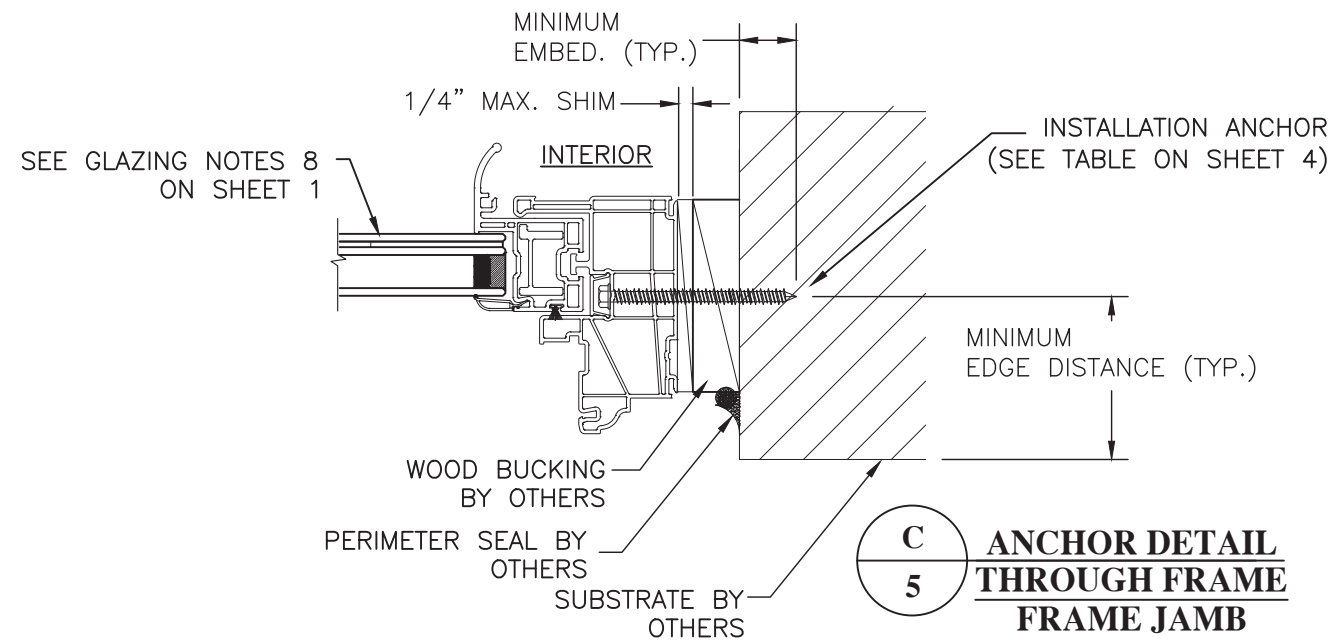


B
5 **ANCHOR DETAIL
THROUGH FRAME
FRAME HEAD**

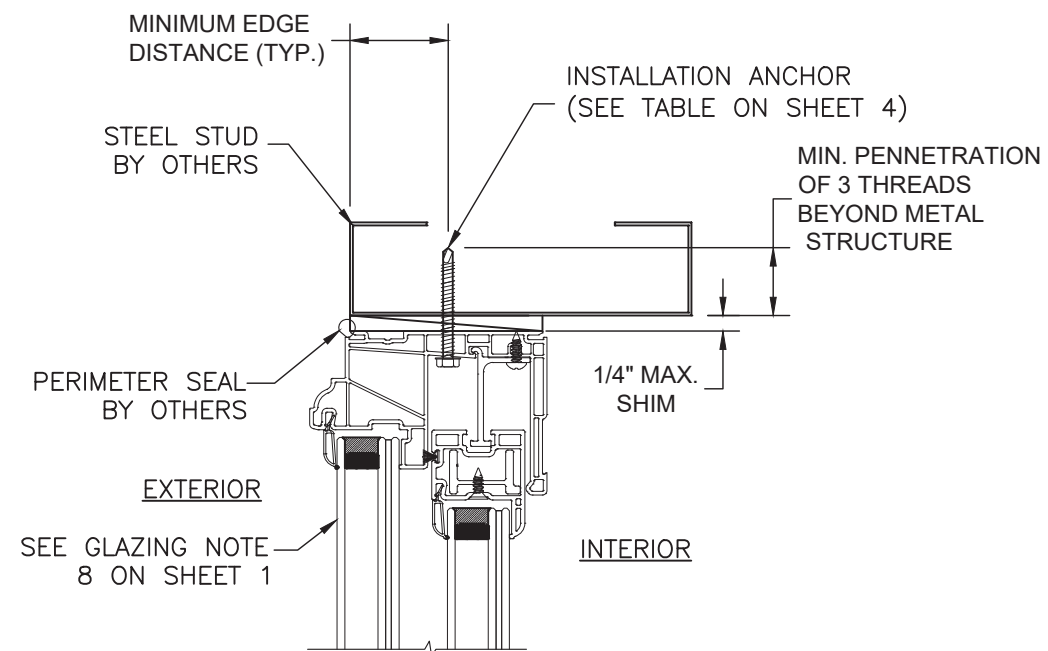


A
5 **ANCHOR DETAIL
THROUGH FRAME
FRAME SILL**

**(THROUGH FRAME)
ANCHOR DETAIL**



C
5 **ANCHOR DETAIL
THROUGH FRAME
FRAME JAMB**



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

**SERIES ES-V200 L.M. IMPACT H.S. SLIDING WINDOW
INSTALLATION ANCHORAGE DETAILS**

DATE:	DWN BY:	CHK BY:	SCALE:
03/10/2026	JM	RJA	NONE

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AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



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by Robert J
Amoruso
Date: 2026.04.29
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PROJECT#: ACE-2025-207

DWG/REV: SCS-0051, Rev 0

SHT: 5 of 8

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

REVISION DESCRIPTION	DATE				
	BY				
NO.					

DATE: 03/10/2026	DWN BY: JM	CHK BY: RJA	SCALE: NONE
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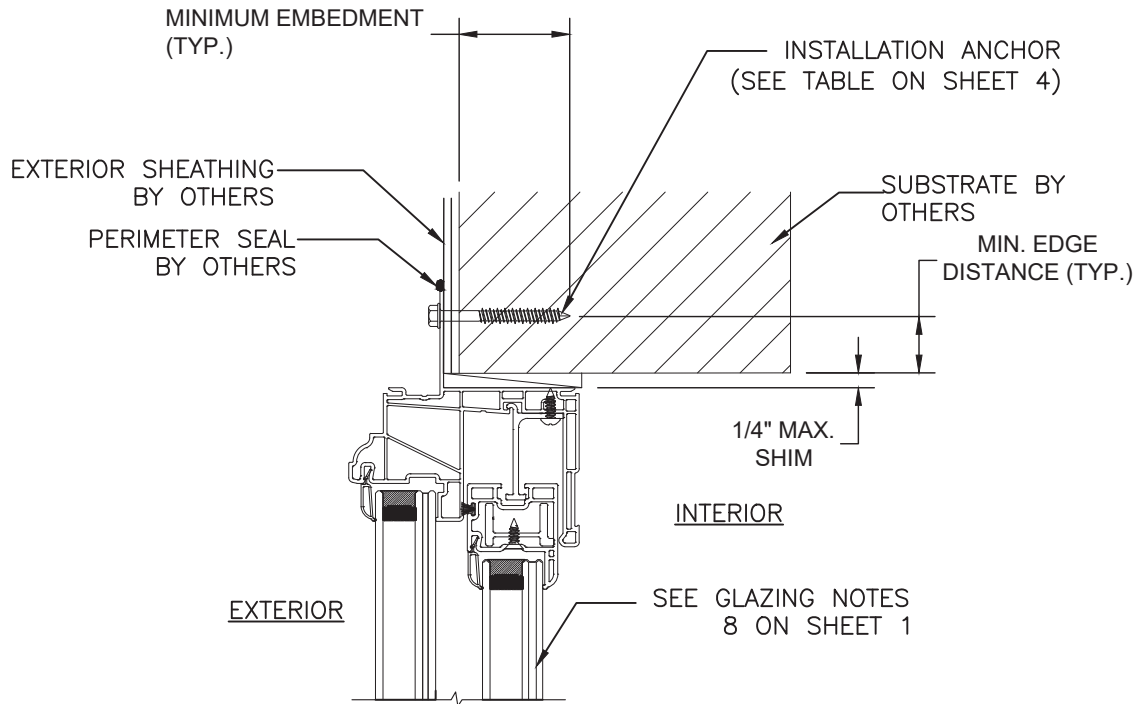


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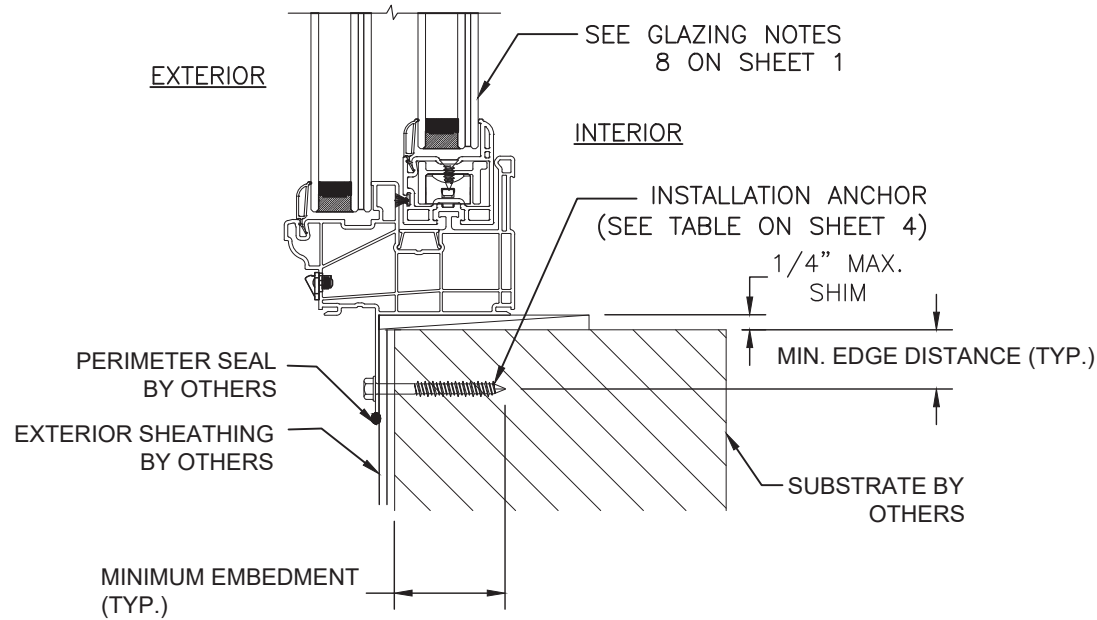
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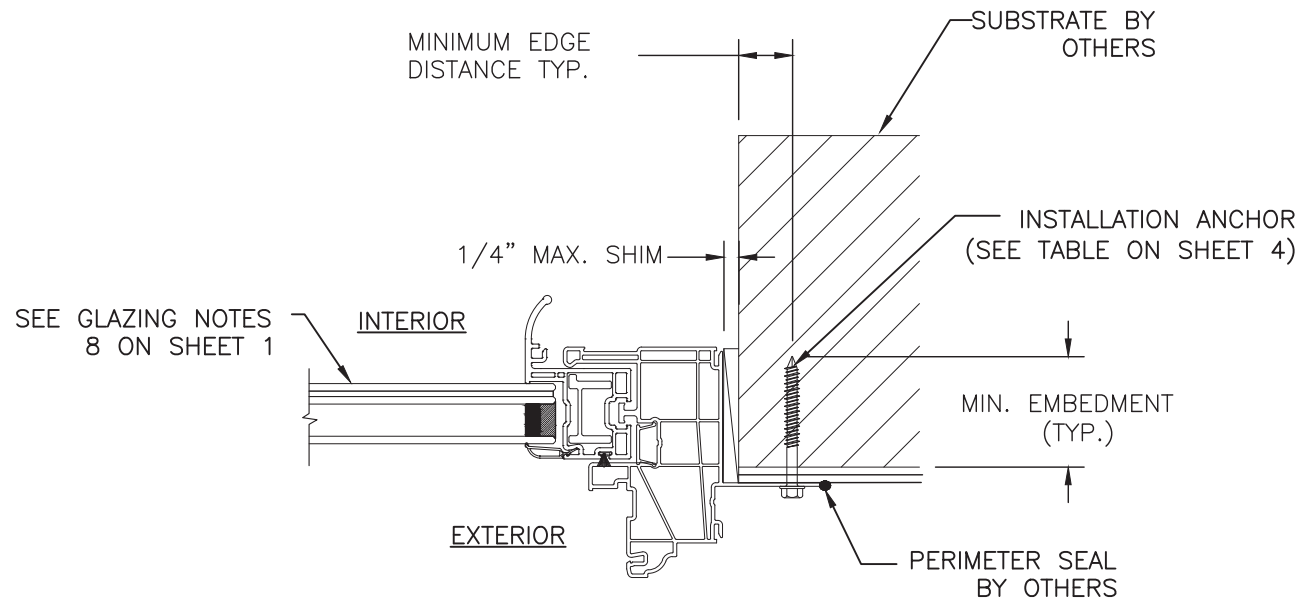


B
6 ANCHOR DETAIL
NAILING FIN
FRAME HEAD

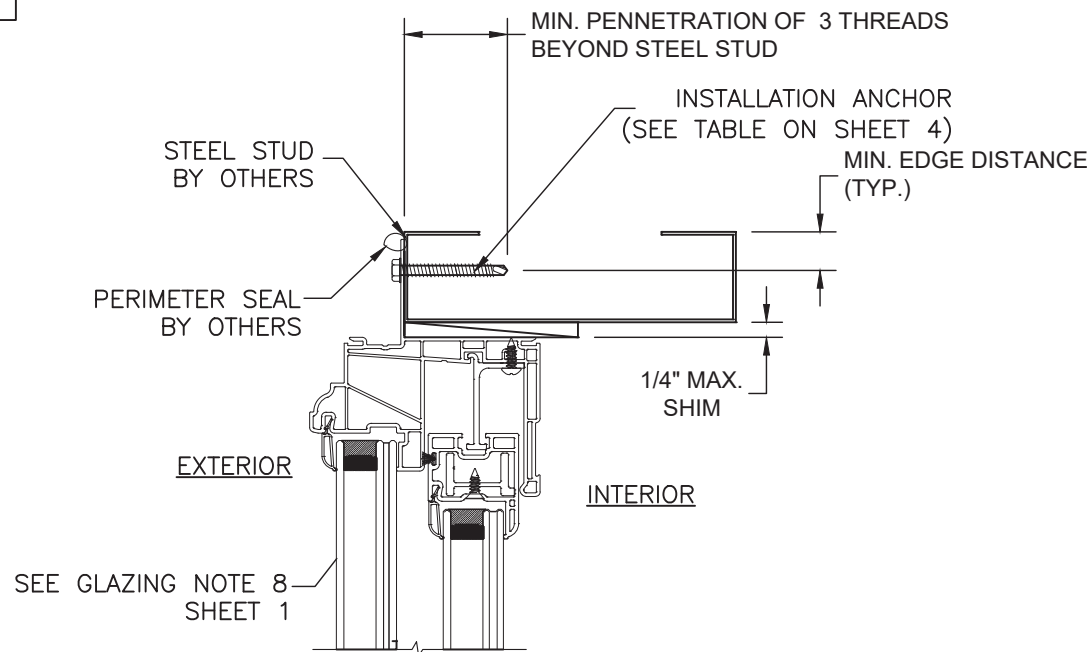


A
6 ANCHOR DETAIL
NAILING FIN
FRAME SILL

**FIN FRAME
(NAILING FIN)
ANCHOR DETAIL**



C
6 ANCHOR DETAIL
FRAME JAMB
NAILING FIN



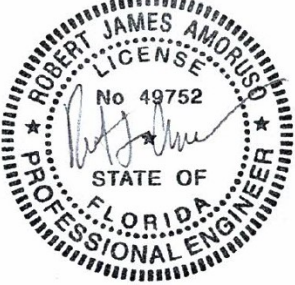
D
6 VERTICAL SECTION
STEEL STUD STRUCTURE
NAIL FIN INSTALLATION
HEAD SHOWN, SILL & JAMBS
SIMILAR

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

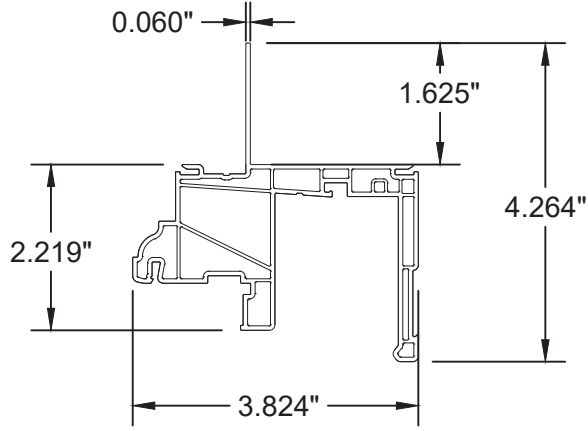
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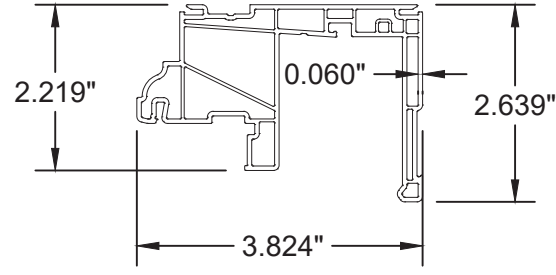
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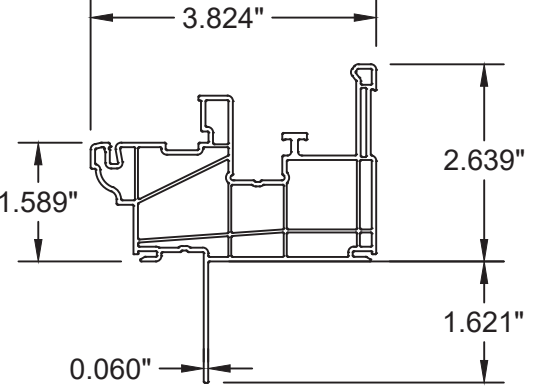
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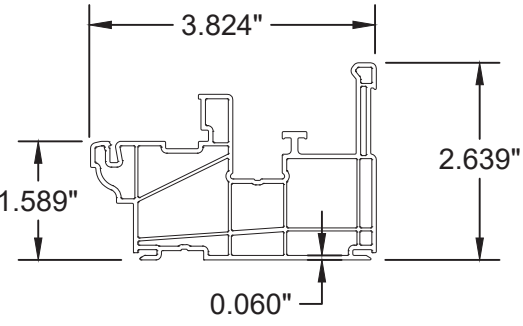
① MAIN FRAME HEAD/JAMB/VERTICAL
EQUAL LEG UPVC / NAIL FIN-4743



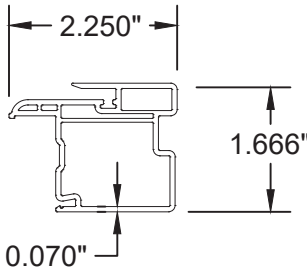
② MAIN FRAME HEAD/JAMB/VERTICAL
EQUAL LEG UPVC / EQUAL-4753



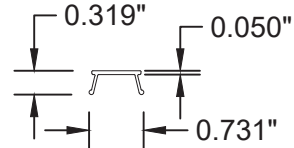
③ MAIN FRAME SILL
NAIL FIN UPVC-4742



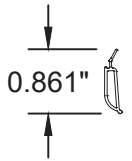
④ MAIN FRAME SILL
EQUAL UPVC-4752



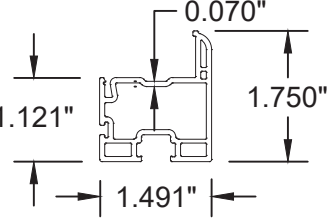
⑤ FIXED MEETING RAIL
UPVC-4719



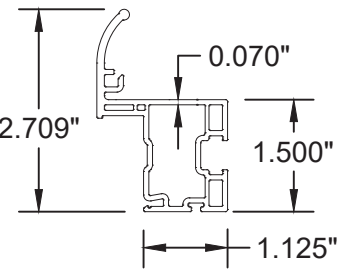
⑥ SCREW COVER
UPVC-4723



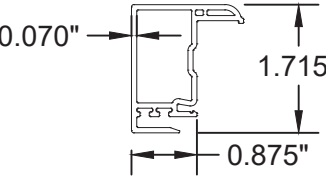
⑦ GLAZING BEAD
UPVC-5464



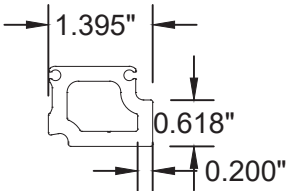
⑧ MAIN SASH
UPVC-5539



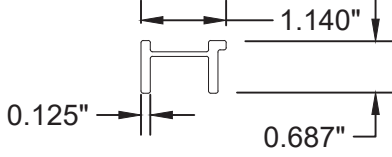
⑨ PULL JAMB SASH
UPVC-4721



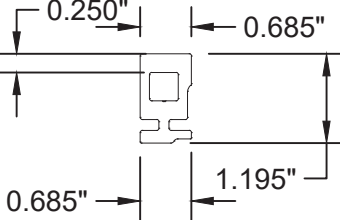
⑩ LOCK RAIL
UPVC-5542



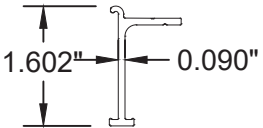
⑪ FIXED MEETING RAIL
H.D. REINFORCEMENT
ALUMINUM-V200-002



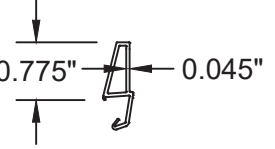
⑫ TOP/BOTTOM/VERTICAL
REINFORCEMENT
ALUMINUM-DECE-004



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

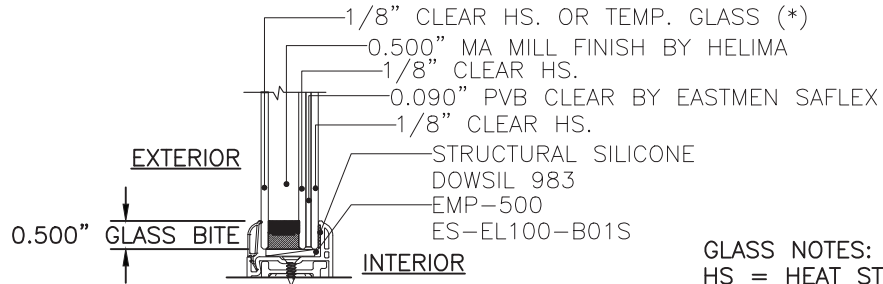


⑭ SLIDER TRACK TOP
REINFORCEMENT
ALUMINUM-DECE-007



⑰ SILL RISER-EXTENSION
UPVC-R746-ES

BILL OF MATERIALS			
QUANTITY	PART NO.	DESCRIPTION	MANUFACTURER
1	4743	MAIN FRAME HEAD, JAMB, NAIL FIN UPVC	DECEUNINCK
2	4753	MAIN FRAME HEAD, JAMB, EQUAL LEG UPVC	DECEUNINCK
3	4742	MAIN FRAME SILL NAIL FIN, UPVC	DECEUNINCK
4	4752	MAIN FRAME SILL EQUAL LEG, UPVC	DECEUNINCK
5	4719	FIXED MEETING RAIL, UPVC	DECEUNINCK
6	4723	SCREW COVER, UPVC	DECEUNINCK
7	5464	GLAZING BEAD, UPVC	DECEUNINCK
8	5539	MAIN SASH, UPVC	DECEUNINCK
9	4721	PULL JAMB SASH, UPVC	DECEUNINCK
10	5542	LOCK RAIL, UPVC	DECEUNINCK
11	V200-002	H.D. REINF. FIXED M.R. RAIL, ALUM.	DECEUNINCK
12	DECE-004	REINF. TOP, BOTTOM & VERTICAL, ALUM.	DECEUNINCK
13	V200-001	H.D. REINF. LOCK STILE, ALUM.	DECEUNINCK
14	DECE-007	REINF. SLIDER TRACK TOP, ALUM.	DECEUNINCK
15	TGA-1013	SCREEN FRAME, ALUM.	DECEUNINCK
16	ALU-P-588	PLATEN, ALUM.	DECEUNINCK
17	R746-ES	SILL RISER EXTENSION, UPVC	IMPERIAL PLASTICS
18	-----	#10 P.HD. WOOD SCREW OR SELF-TAPPING	PURCHASE
19	-----	#14 P.HD. WOOD SCREW OR SELF-TAPPING	PURCHASE
20	-----	1/4" I.T.W. TAPCON ANCHOR	PURCHASE



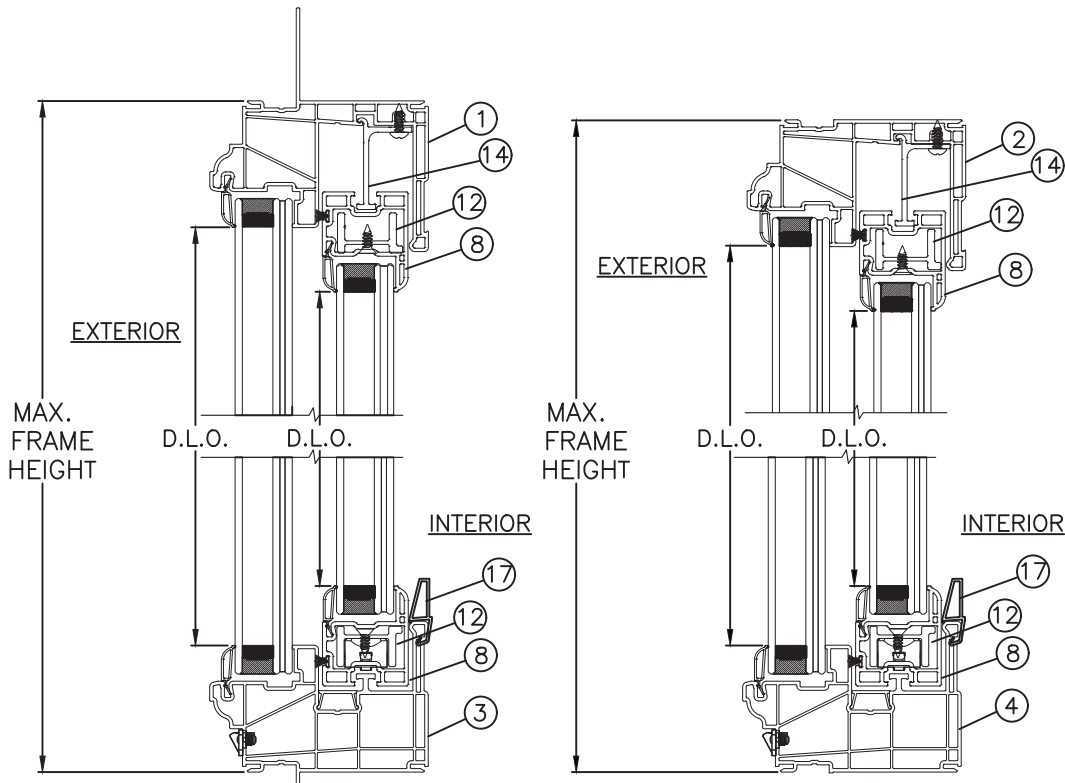
GLAZING DETAIL G5
LARGE MISSILE IMPACT – HVHZ & NON-HVHZ
SMALL MISSILE IMPACT – NON-HVHZ ONLY

(*) SMALL MISSILE IMPACT – HVHZ ONLY, EXTERIOR LITE
OF GLASS TYPE G5 SHALL BE TEMPERED GLASS

IGU OVERALL THICKNESS AND AIR SPACE GAP

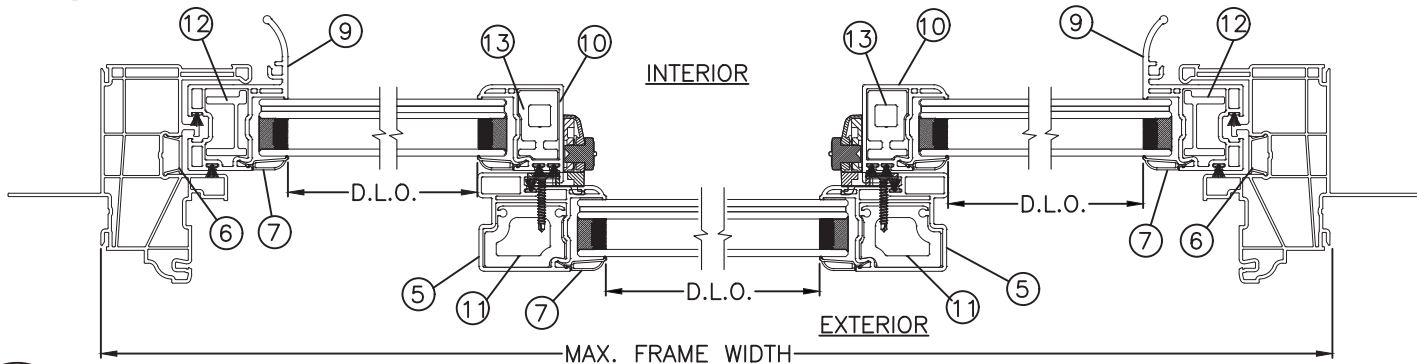
- AIR SPACE GAP MAY BE DECREASED WITHOUT IMPACTING STRENGTH OF THE GLAZED UNIT.
- DECREASING THE AIR GAP WILL RESULT IN A DECREASE IN THE OVERALL THICKNESS OF THE GLAZING UNIT.
- THE THICKNESS OF SACRIFICIAL LITES CAN BE INCREASED BUT CANNOT BE DECREASED. SACRIFICIAL LITE GLASS TREATMENT, SPECIFICALLY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

GLASS NOTES:
HS = HEAT STRENGTHENED
TEMP. = TEMPERED
PVB = EASTMAN SAFLEX 0.090" INTERLAYER



A
8
VERTICAL SECTION
FRAME HEAD/SILL

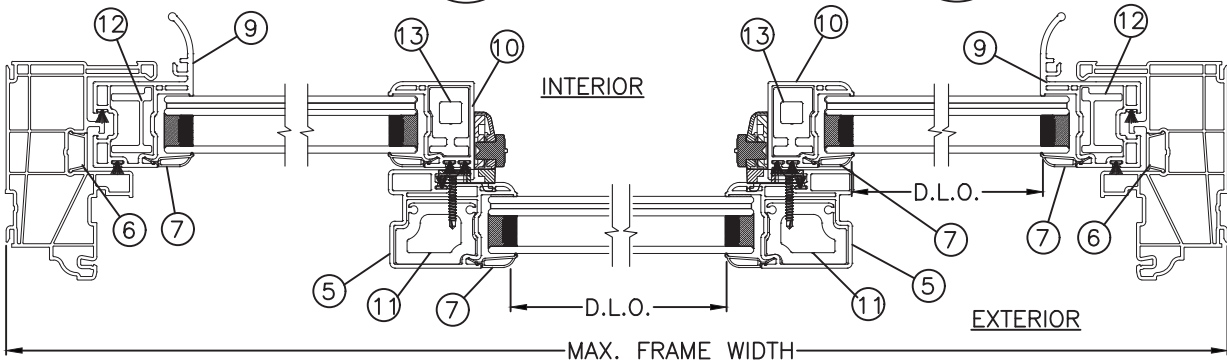
B
8
VERTICAL SECTION
FRAME HEAD/SILL



C
8
HORIZONTAL SECTION
FIXED FRAME JAMB

D
8
HORIZONTAL SECTION
MEETING STILES

E
8
HORIZONTAL SECTION
FRAME JAMB



F
8
HORIZONTAL SECTION
FRAME JAMB

G
8
HORIZONTAL SECTION
MEETING STILES

H
8
HORIZONTAL SECTION
FRAME JAMB

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

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

NO.	REVISION DESCRIPTION	BY	DATE			

DATE: 03/10/2026
DWN BY: JM
CHK BY: RJA
SCALE: NONE
ROBERT J. AMORUSO, P.E. #49752
AMORUSO CONSULTING ENG., LLC
FBPE REGISTRATION NO. 38327
226 N NOVA RD, NO. 142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM



Digitally signed
by Robert J
Amoruso
Date: 2026.04.29
16:57:30 -04'00'

PROJECT#: ACE-2025-207
DWG/REV: SCS-0051, Rev 0
SHT: 8 of 8