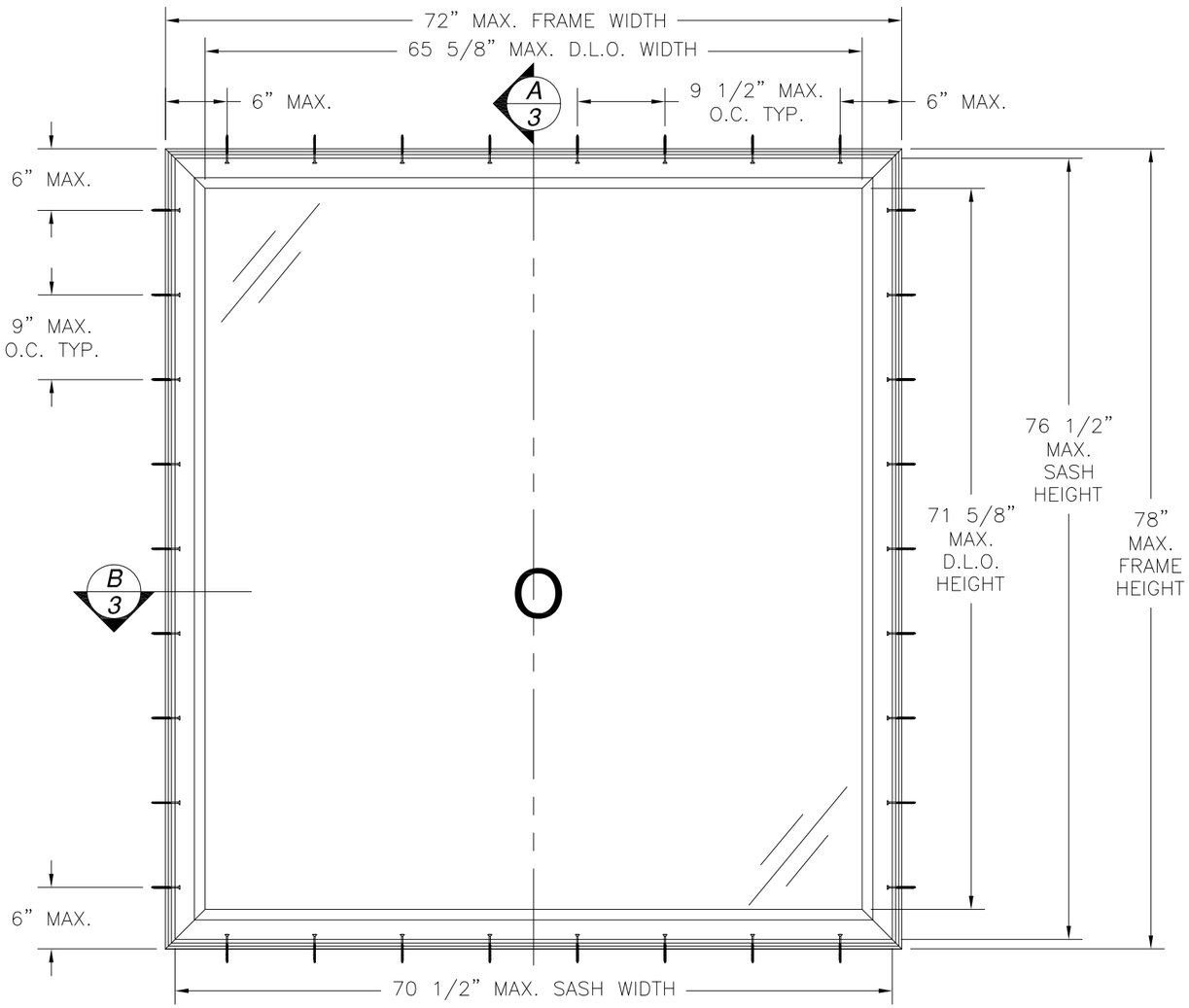

SERIES V-630 PVC SINGLE FIXED CASEMENT WINDOW

EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
+80.0 PSF *-130.0 PSF*	*SMALL MISSILE IMPACT*

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED XXX UNIT	01/31/12	R.L.

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
2) WOOD FRAMING, 2X BACKED STEEL FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3) 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SEPARATION OF DISSIMILAR MATERIALS IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5) FRAME MATERIAL: EXTRUDED RIGID PVC .071" THICK.
   SASH MATERIAL: EXTRUDED RIGID PVC .075" THICK.
6) UNITS MUST BE GLAZED PER ASTM E1300. SEE SHEET 5 FOR GLAZING DETAIL.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8) SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
9) FOR ANCHORING WINDOW FRAME INTO MASONRY/CONCRETE USE 3/16" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 5/8'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10) FOR ANCHORING WINDOW FRAME INTO 2X WOOD FRAMING, 2X BUCK OR 2X BACKED 20GA. STEEL FRAMING USE #10 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11) ALL FASTENERS TO BE CORROSION RESISTANT.
12) 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 BELOW:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
    C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
    D. STEEL FRAMING: 2X BACKED 20GA. (.036" MIN.) STEEL FRAMING.

SIGNED: 01/31/2012

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1, 2	ELEVATION, ANCHORING LAYOUT AND NOTES
3	B.O.M. CROSS SECTIONS, CORNER & GLAZING DETAILS
4 – 7	INSTALLATION DETAILS
8	COMPONENTS

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SERIES V–630 PVC SINGLE AND FIELD MULLED CASEMENT WINDOW – SMI
ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN:	DWG NO.	REV
TJH	08–01129	A
SCALE NTS	DATE 11/08/10	SHEET 1 OF 8

Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
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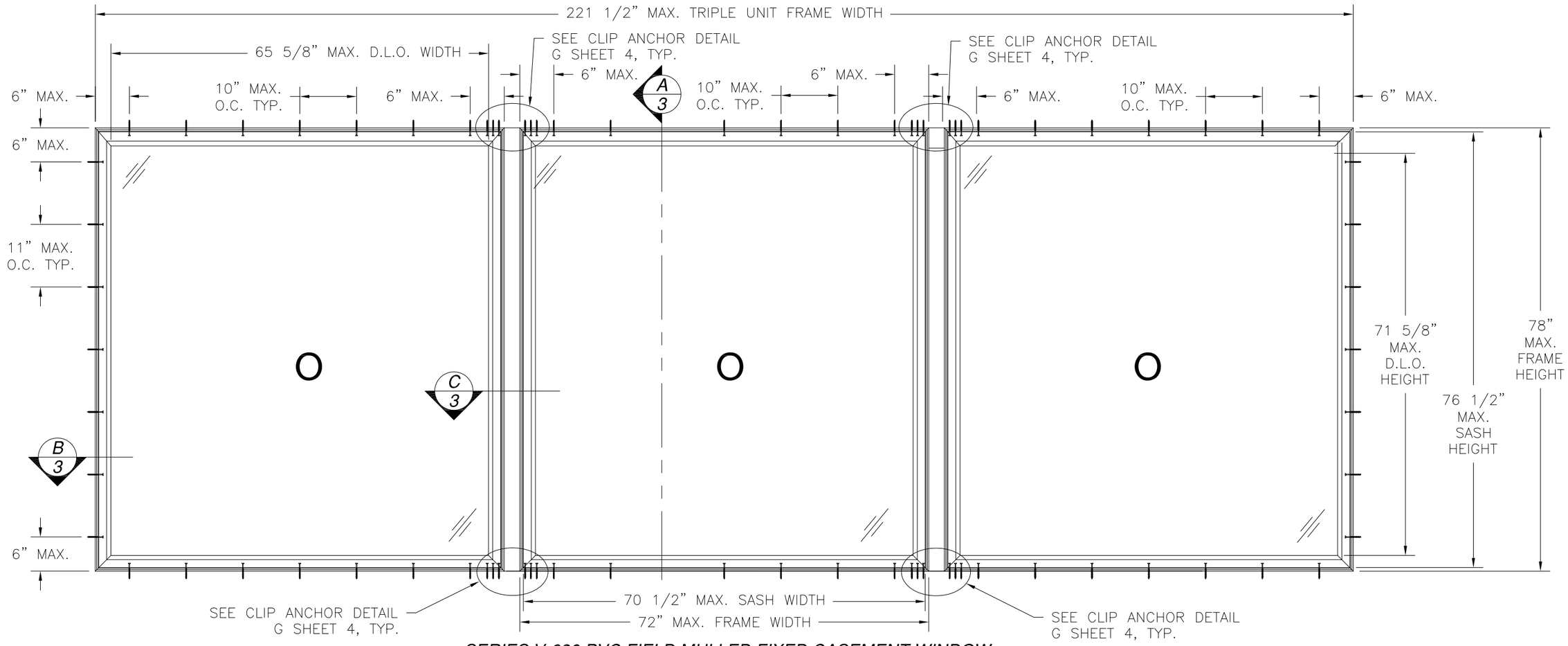

SERIES V-630 PVC FIELD MULLED FIXED CASEMENT WINDOW

EXTERIOR VIEW

TRIPLE MULLED UNIT SHOWN, UNLIMITED NUMBER OF UNITS MAY BE MULLED TOGETHER AS LONG AS INDIVIDUAL UNIT SIZE DOES NOT EXCEED WIDTH AND HEIGHT SHOWN ABOVE

SEE NOTE SHEET 3

DESIGN PRESSURE RATING	*IMPACT RATING*
+80.0 PSF *-90.0 PSF*	*SMALL MISSILE IMPACT*

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SERIES V-630 PVC SINGLE AND FIELD MULLED CASEMENT WINDOW – SMI
ELEVATION, ANCHORING LAYOUT AND NOTES

DRAWN:	DWG NO.	REV
TJH	08-01129	A
SCALE NTS	DATE 11/08/10	SHEET 2 OF 8

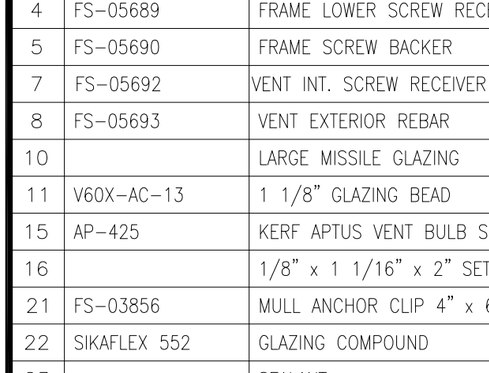
STATE OF TEXAS LUIS R. LOMAS 101889 LICENSED PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

PARTS LIST

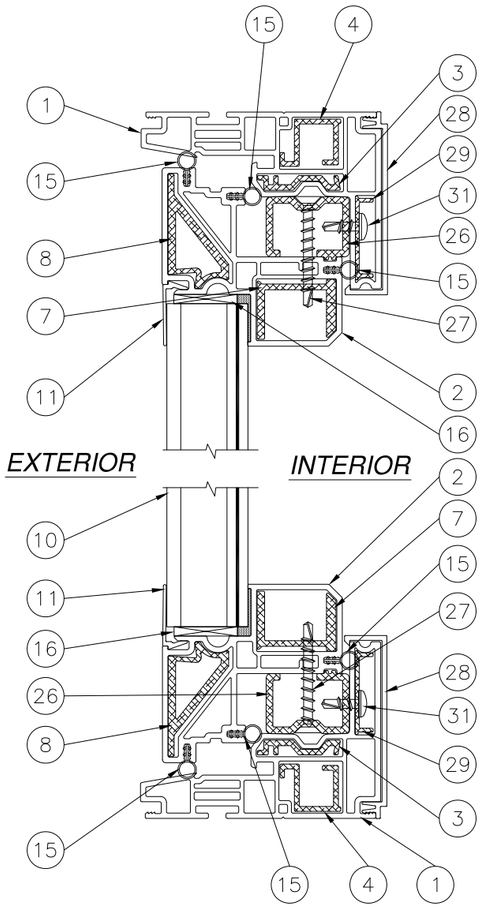
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	101.214	FRAME, HEAD, SILL AND JAMB	VEKA	RIGID PVC
2	101.214	PANEL FRAME, STILE AND RAIL	VEKA	RIGID PVC
3	FS-05688	FRAME UPPER SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
4	FS-05689	FRAME LOWER SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
5	FS-05690	FRAME SCREW BACKER	KEYMARK	ALUMINUM 6063-T6
7	FS-05692	VENT INT. SCREW RECEIVER & REBAR	KEYMARK	ALUMINUM 6063-T6
8	FS-05693	VENT EXTERIOR REBAR	KEYMARK	ALUMINUM 6063-T6
10		LARGE MISSILE GLAZING		
11	V60X-AC-13	1 1/8" GLAZING BEAD	MOR-X	RIGID PVC
15	AP-425	KERF APTUS VENT BULB SEAL	SCHLEGAL	PLASTIC
16		1/8" x 1 1/16" x 2" SET BLOCK	FRANK LOWE	NEOPRENE
21	FS-03856	MULL ANCHOR CLIP 4" x 6 1/2"	KEYMARK	ALUMINUM 6063-T6
22	SIKAFLEX 552	GLAZING COMPOUND	SIKA	URETHANE
23		SEALANT		SILICONE
24		#10 x 2" FH SELF DRILLING SCREW		STAINLESS STEEL
25	600A01	FIELD MULL	KEYMARK	ALUMINUM 6063-T6
26	FS-05696	F-LITE SPACER & SCREW RECEIVER	KEYMARK	ALUMINUM 6063-T6
27		#10 x 1 3/4" FH S-DRILLING SCREW		STAINLESS STEEL
28	V60X-AC-01	FIXED VENT SCREW COVER	MOR-X	RIGID PVC
29	FS-05694	F-VENT ATTACH SCREW BACKUP	KEYMARK	ALUMINUM 6063-T6
30	279500	20MM THERMAL STRUT	TECHNOFORM	POLYAMIDE 66
31		#12 x 3/4" PH S-DRILLING SCREW		STAINLESS STEEL
32		#10 x 1 1/4" FH S-DRILLING SCREW		STAINLESS STEEL
33	V60X-AC-12A	FIELD MULL COVER	MOR-X	RIGID PVC

ITEMS 6, 9, 12, 13, 14, 17, 18, 19 AND 20 ARE NOT USED.

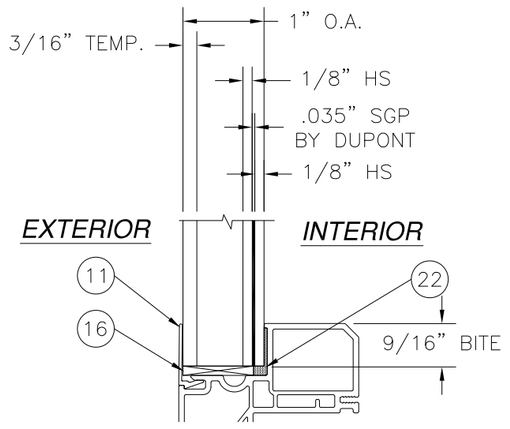


FRAME CORNER
CONSTRUCTION DETAIL

SASH CORNER
CONSTRUCTION DETAIL

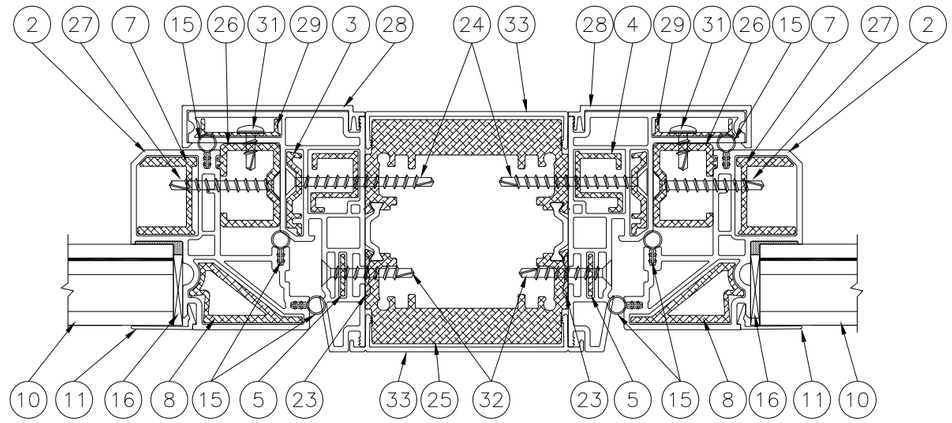


A/3 VERTICAL CROSS SECTION

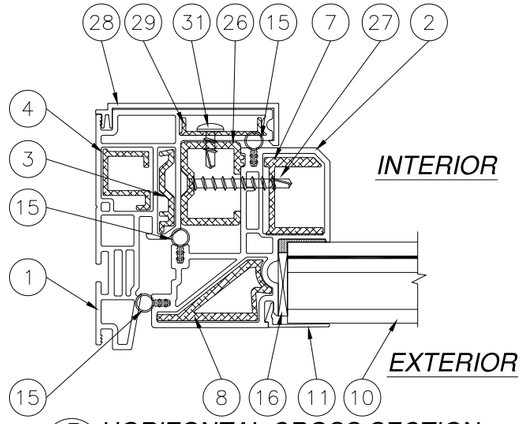


GLAZING DETAIL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REMOVED XXX UNIT	01/31/12	R.L.



C/3 HORIZONTAL CROSS SECTION



B/3 HORIZONTAL CROSS SECTION

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SERIES V-630 PVC SINGLE AND FIELD MULLED CASEMENT WINDOW - SMI
BILL OF MATERIALS AND CROSS SECTIONS

DRAWN:	DWG NO.	REV
TJH	08-01129	A
SCALE NTS	DATE 11/08/10	SHEET 3 OF 8

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

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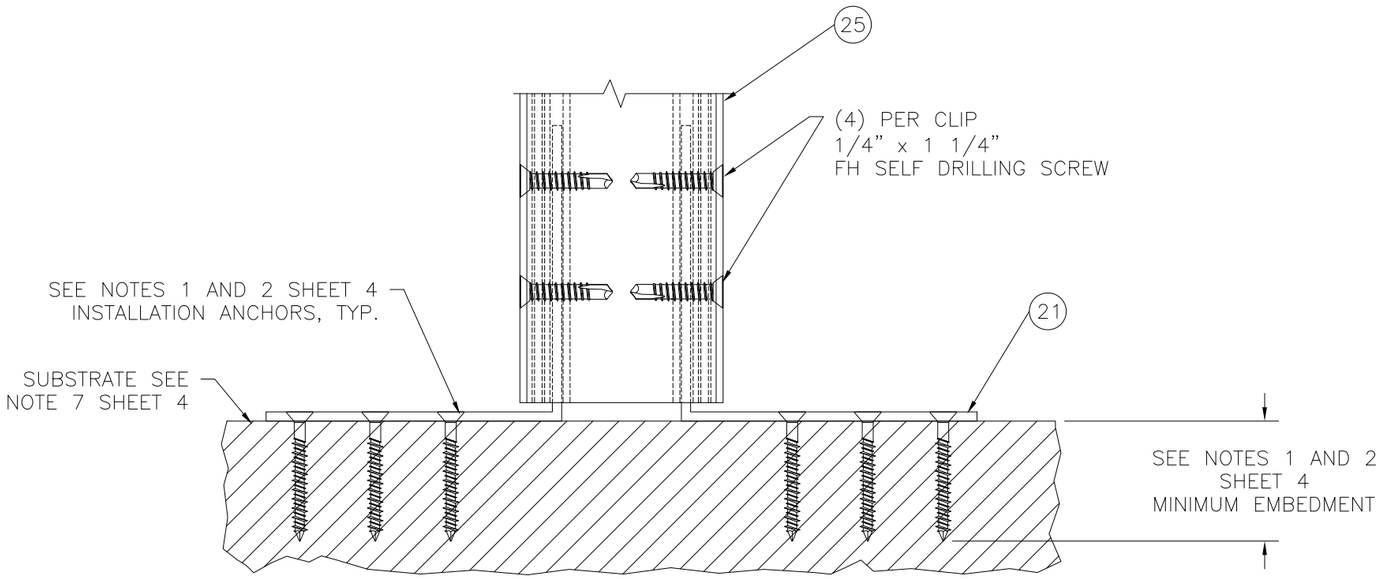
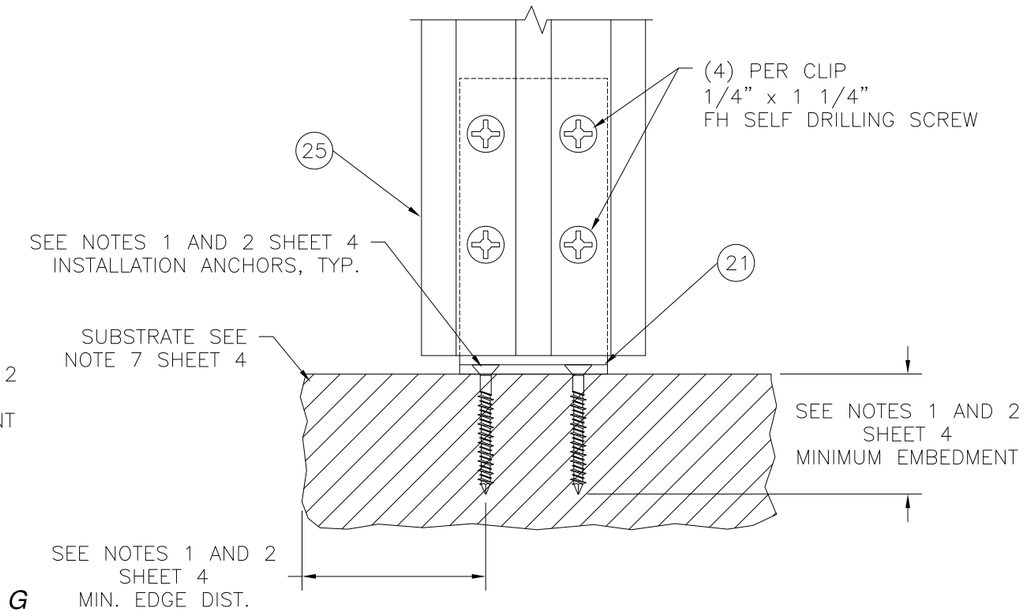
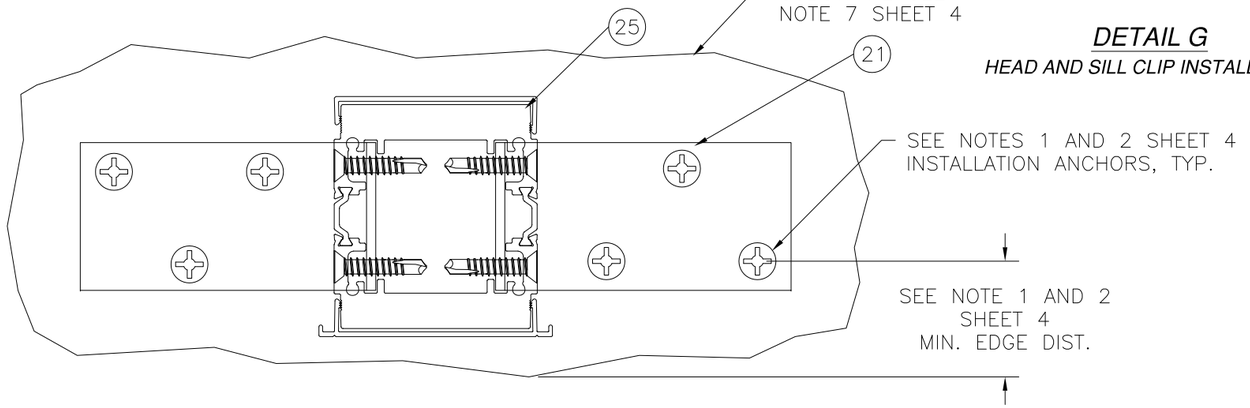
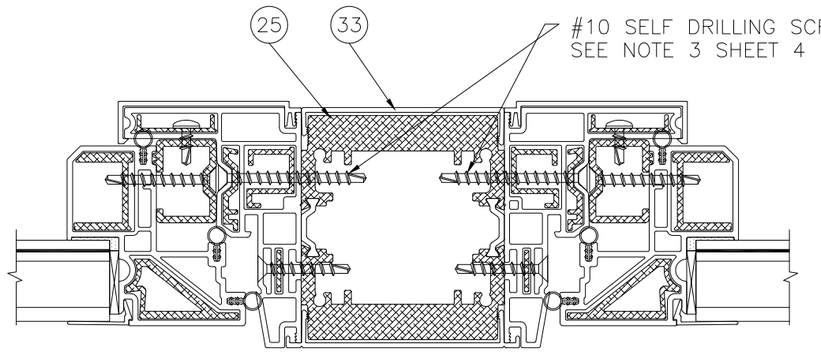






DETAIL G

HEAD AND SILL CLIP INSTALLATION



DETAIL H

WINDOW TO MULLION INSTALLATION, FIXED/FIXED SHOWN, FIXED/OPERABLE AND OPERABLE/OPERABLE SIMILAR

MULLION ANCHORING NOTES:

1) FOR ANCHORING INTO CONCRETE USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2) FOR ANCHORING INTO WOOD FRAMING, 2X BUCK OR 2X BACKED 20GA. MINIMUM STEEL FRAMING USE #14 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 13/16" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
3) FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 9 1/4" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
5) FOR WINDOW UNITS ANCHORING TO SUBSTRATE REFER TO SHEETS 1, 2, 5 – 8
6) ALL FASTENERS TO BE CORROSION RESISTANT.
7) 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 BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
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   C. STEEL FRAMING: 2X BACKED 20GA. (.036" MIN.) STEEL FRAMING.

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SERIES V–630 PVC SINGLE AND FIELD MULLED CASEMENT WINDOW – SMI INSTALLATION DETAILS AND NOTES

DRAWN:	DWG NO.	REV
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Luis R. Lomas P.E.
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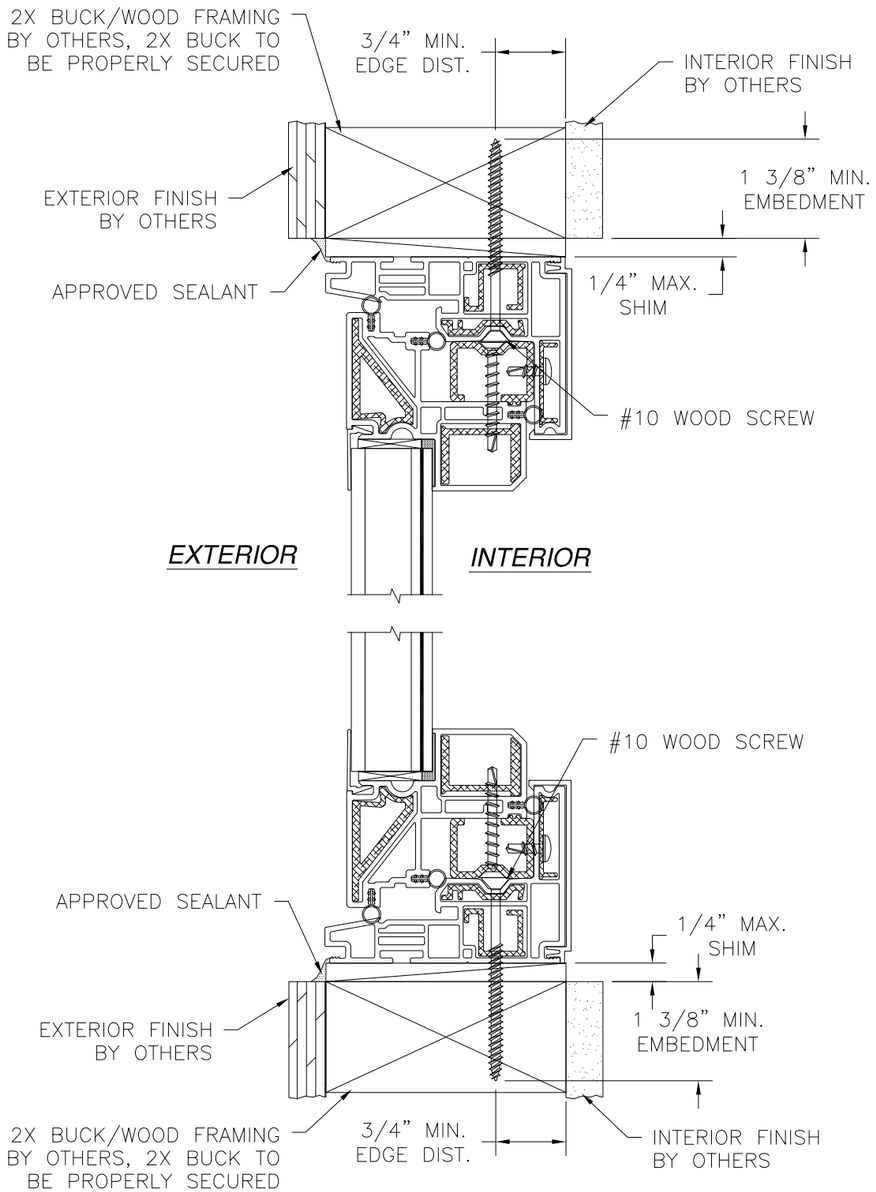
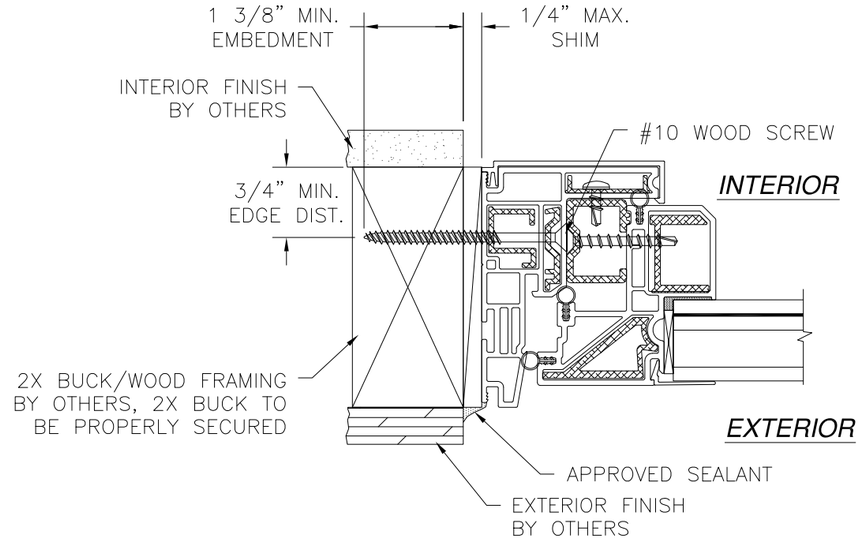


VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION
FIXED SHOWN, OPERABLE SIMILAR



HORIZONTAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION
FIXED SHOWN, OPERABLE SIMILAR

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STATE OF TEXAS
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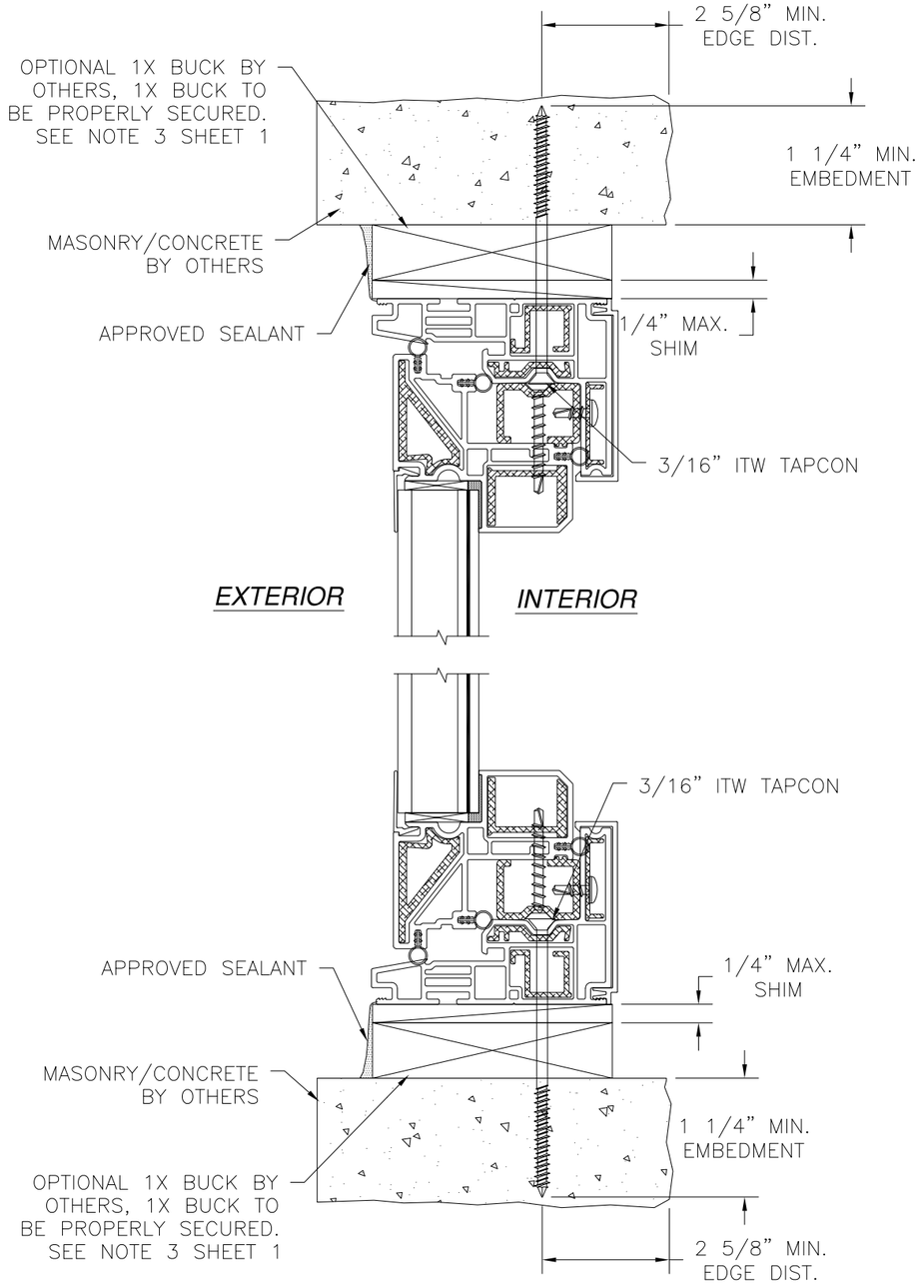
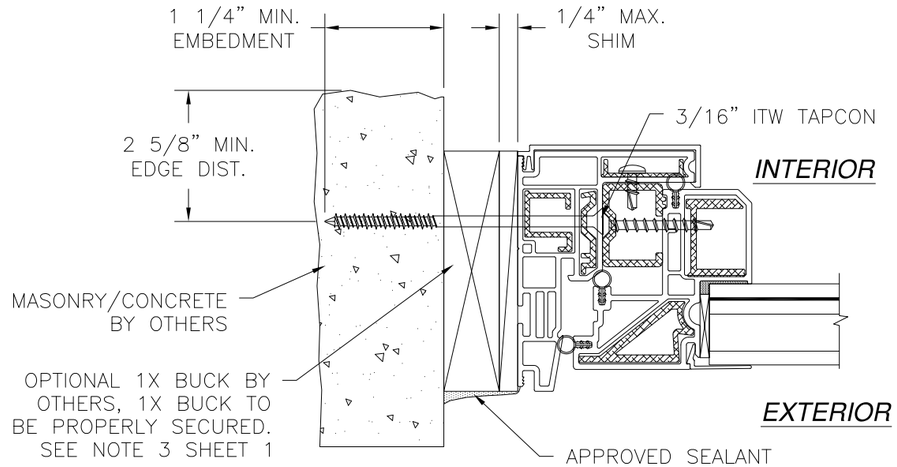


VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION



HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

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SERIES V-630 PVC SINGLE AND FIELD
MULLED CASEMENT WINDOW - SMI
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
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Luis R. Lomas P.E.
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REV	DESCRIPTION	DATE	APPROVED
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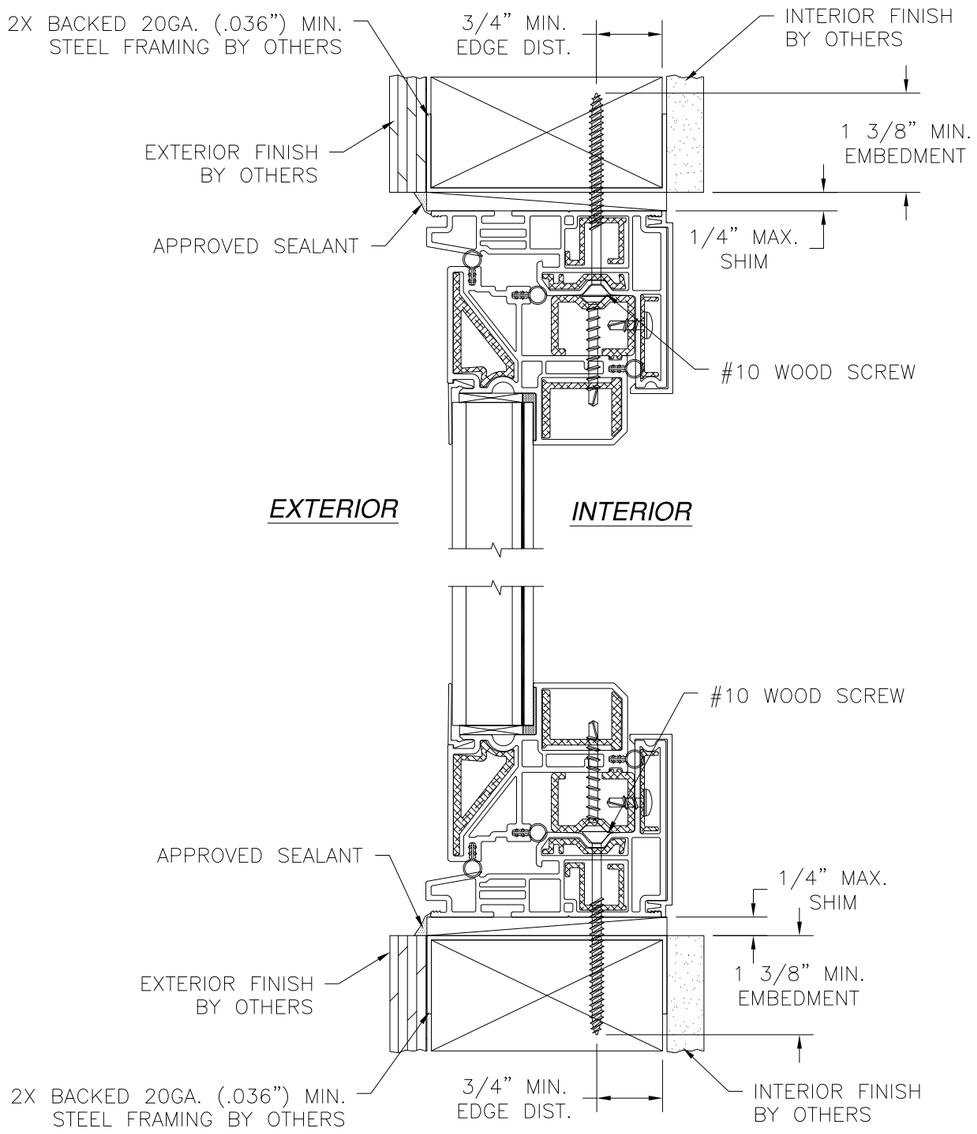
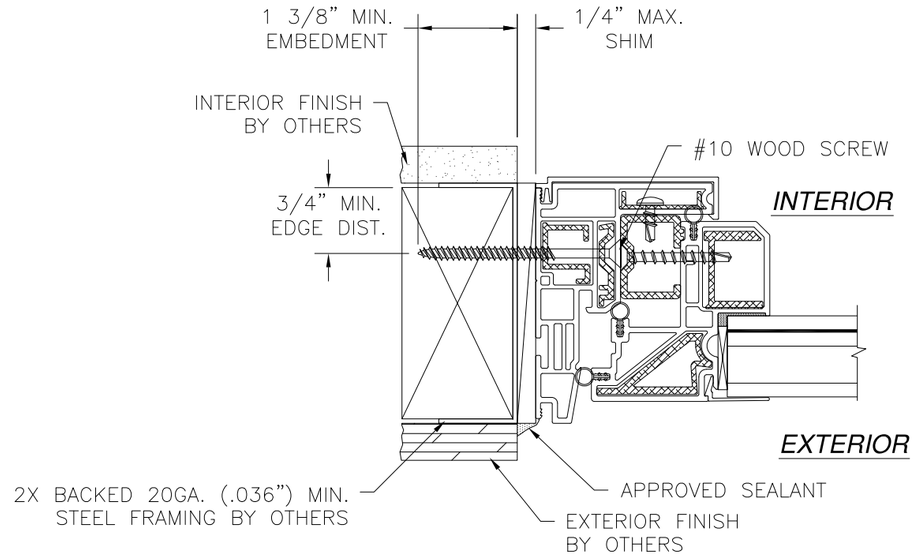


VERTICAL CROSS SECTION

2X BACKED STEEL STUD FRAMING INSTALLATION



HORIZONTAL CROSS SECTION

2X BACKED STEEL STUD FRAMING INSTALLATION

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INSTALLATION DETAILS

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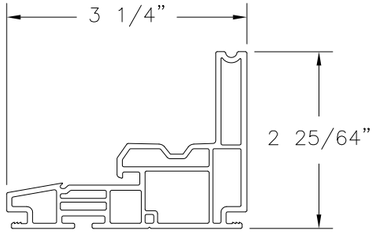
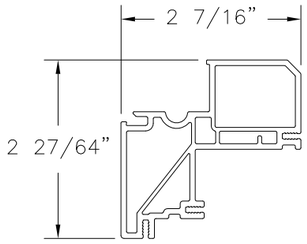
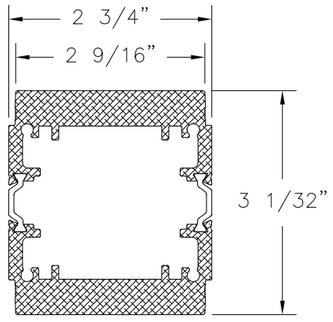


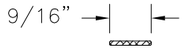
1 FRAME, HEAD, SILL AND JAMB
EXTRUDED RIGID PVC .071" THICK



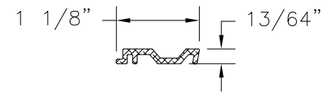
2 PANEL FRAME, STILE AND RAIL
EXTRUDED RIGID PVC .075" THICK



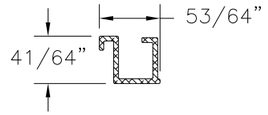
25 FIELD MULL
EXTRUDED ALUMINUM 6063-T6 .470" THICK
WITH (2) ITEM #30



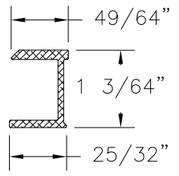
5 FRAME SCREW BACKER
EXTRUDED ALUMINUM 6063-T6 .058" THICK



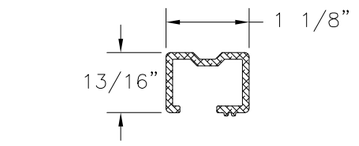
3 FRAME UPPER SCREW RECEIVER
EXTRUDED ALUMINUM 6063-T6 .075" THICK



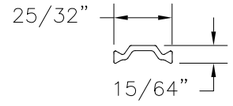
4 FRAME LOWER SCREW RECEIVER
EXTRUDED ALUMINUM 6063-T6 .065" THICK



7 VENT INTERIOR SCREW RECEIVER AND REBAR
EXTRUDED ALUMINUM 6063-T6 .075" THICK

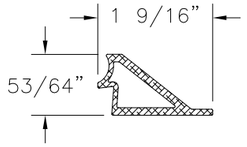


26 FIXED LITE SPACER AND SCREW RECEIVER
EXTRUDED ALUMINUM 6063-T6 .090" THICK

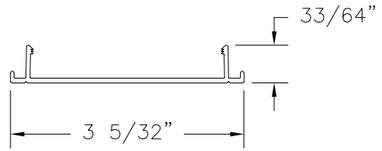


30 20mm THERMAL STRUT
POLYMIDE 66 .071" THICK

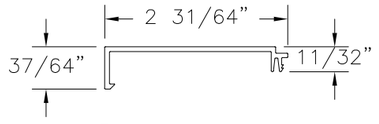
11 1/8" GLAZING BEAD
EXTRUDED RIGID PVC .039" THICK



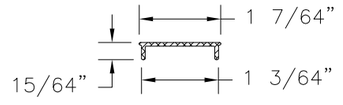
8 VENT EXTERIOR REBAR
EXTRUDED ALUMINUM 6063-T6 .102" THICK



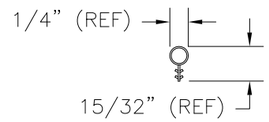
33 FIELD MULL COVER
EXTRUDED RIGID PVC .065" THICK



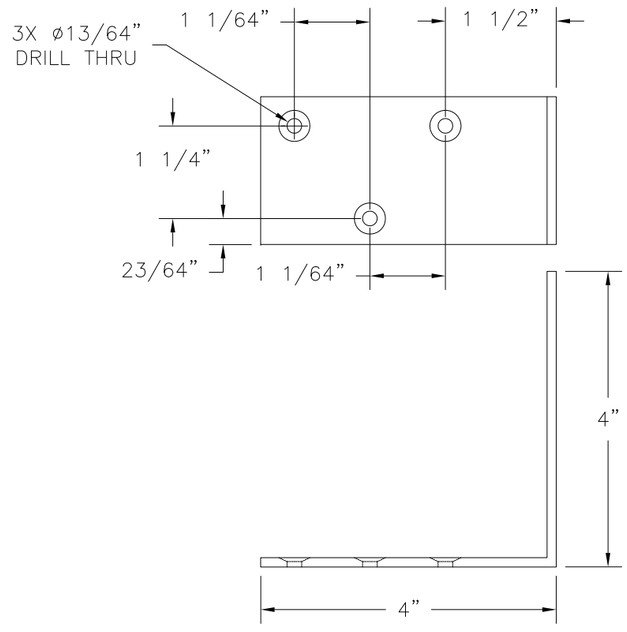
28 FIXED VENT SCREW COVER
EXTRUDED RIGID PVC .065" THICK



29 FIXED VENT ATTACHMENT SCREW BACKUP
EXTRUDED ALUMINUM 6063-T6 .050" THICK



15 KERF APTUS VENT BULB SEAL
PLASTIC



21 MULL ANCHOR CLIP
EXTRUDED ALUMINUM 6063-T6 .125" THICK

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