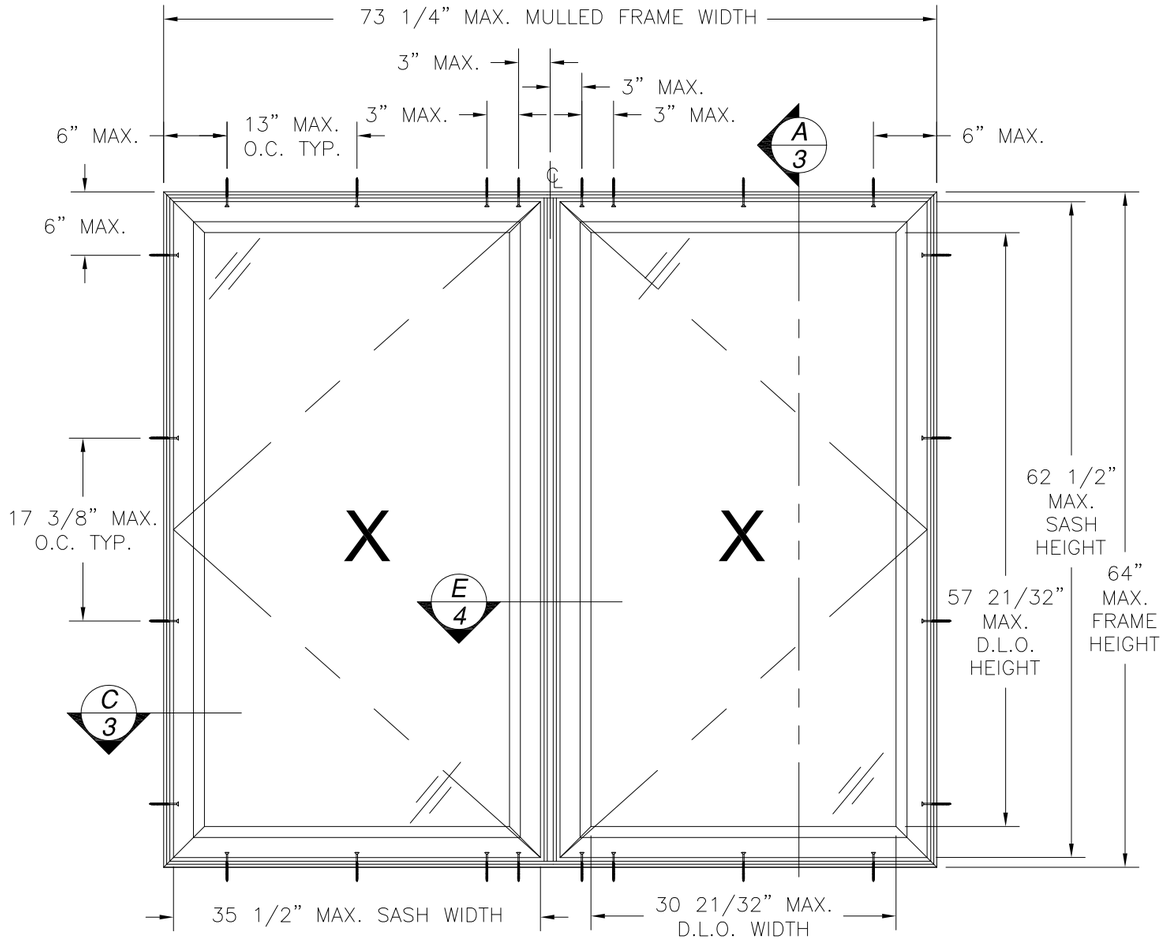


## *SERIES V-600/V-630 PVC INTEGRAL MULLED TWIN CASEMENT WINDOW*

*XX UNIT SHOWN, OX AND XO UNITS ARE APPROVED AS LONG AS INDIVIDUAL UNITS DO NOT EXCEED SIZES SHOWN HEREIN*
*EXTERIOR VIEW*

| *DESIGN PRESSURE RATING* | *IMPACT RATING* |
|---|---|
| *±70PSF* | *NONE* |

| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |

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: WHITE EXTRUDED RIGID PVC.071" THICK.
   SASH MATERIAL: WHITE EXTRUDED RIGID PVC.075" THICK.
6) UNITS MUST BE GLAZED PER ASTM E1300. SEE SHEET 4 FOR GLAZING DETAIL.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS 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 INTO MASONRY 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 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.
13) APPROVED CONFIGURATIONS: X, OX, XO, XX, XOX, OXO, XXO, OXX, XXX. ALL APPROVED CONFIGURATIONS MAYBE LEFT HAND OR RIGHT HAND OPERABLE.
14) SERIES V–600 IS OPERABLE CASEMENT AND SERIES V–630 IS FIXED CASEMENT. SEE CROSS SECTIONS SHEETS 3 AND 4.

*SIGNED: 11/27/10*

TABLE OF CONTENTS


| SHEET NO. | DESCRIPTION |
|---|---|
| 1 – 2 | ELEVATION, ANCHORING LAYOUT AND NOTES |
| 3 | BILL OF MATERIALS AND CROSS SECTIONS |
| 4 | CROSS SECTIONS, CORNER AND GLAZING DETAILS |
| 5 – 7 | INSTALLATION DETAILS |
| 8 | COMPONENTS |
| 9 | HARDWARE LAYOUT |



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SERIES V–600/V–630 PVC SINGLE AND INTEGRAL MULLED CASEMENT WINDOW – NON–IMPACT ELEVATION, ANCHORING LAYOUT AND NOTES

| DRAWN: | DWG NO. | REV |
|---|---|---|
| TJH | 08–01132 | – |
| SCALE NTS | DATE 11/09/10 | SHEET 1 OF 9 |

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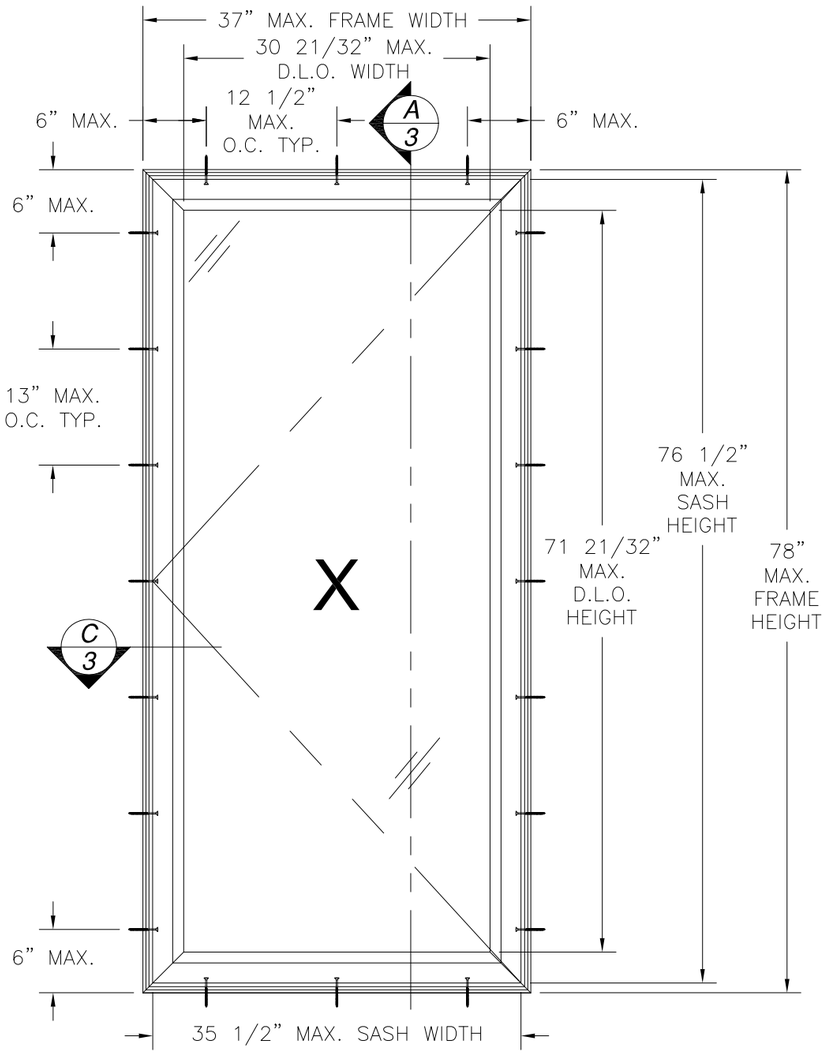
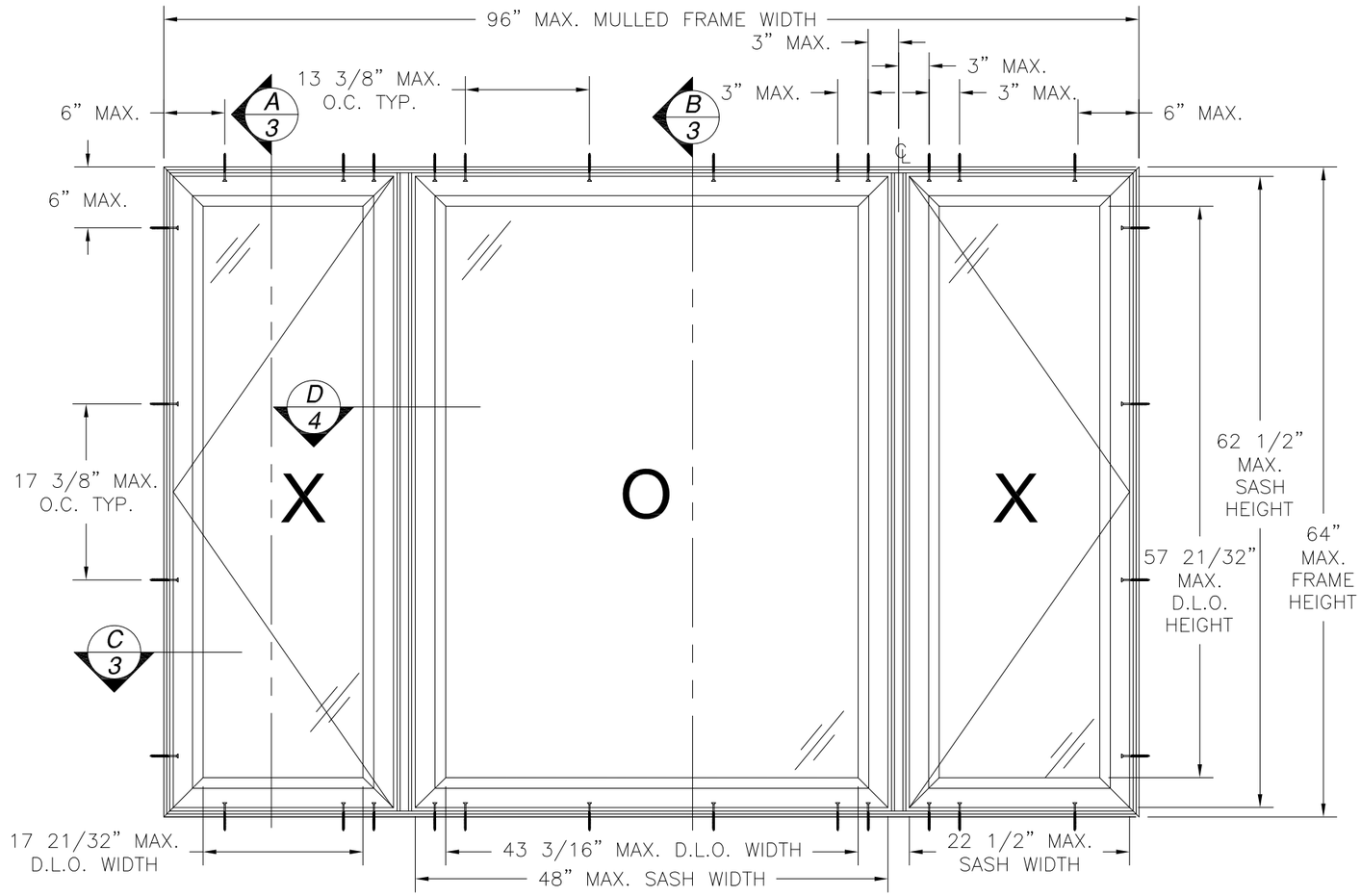



## SERIES V-600 PVC SINGLE CASEMENT WINDOW

*EXTERIOR VIEW*

| DESIGN PRESSURE RATING | IMPACT RATING |
|---|---|
| +80.0 PSF<br>-130.0 PSF | NONE |




## SERIES V-600/V-630 PVC INTEGRAL MULLED TRIPLE CASEMENT WINDOW

*XOX, SHOWN, XXO, OXX, OXO AND XXX ARE APPROVED. INDIVIDUAL OPERABLE UNIT IN ALL APPROVED CONFIGURATIONS MAY NOT EXCEED FRAME SIZE SHOWN HEREIN*

*EXTERIOR VIEW*

| DESIGN PRESSURE RATING | IMPACT RATING |
|---|---|
| +70.0 PSF<br>-80.0 PSF | NONE |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| DRAWN: | DWG NO. | REV |
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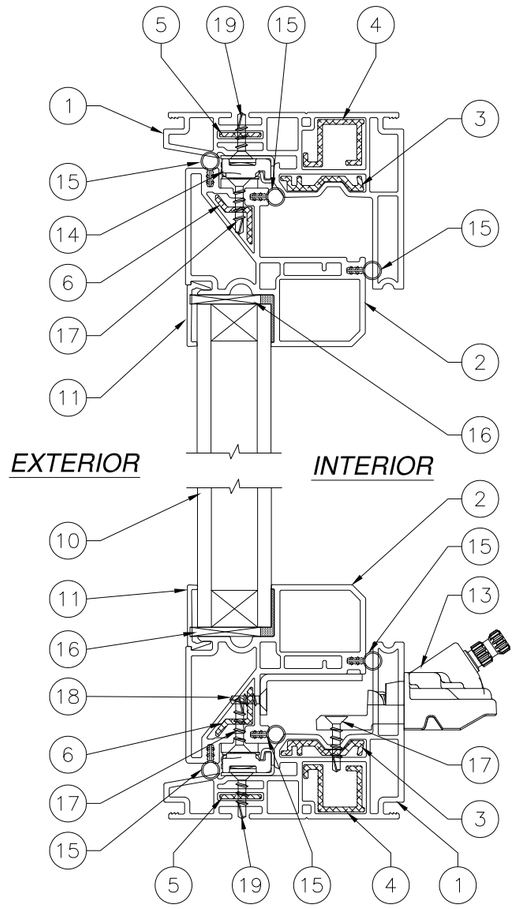
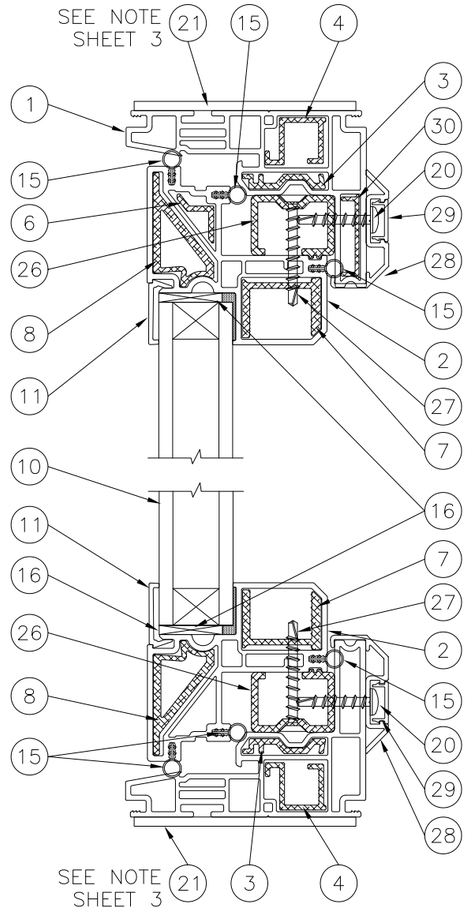
## PARTS LIST

| 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 |
| 6 | FS-05691 | TRACK & SNUBBER SCREW RECEIVER | 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 |
| 9 | 20008 | VENT SNUBBER | TRUTH HARDWARE | |
| 10 | | NON-IMPACT GLAZING | | |
| 11 | V60X-AC-13 | 1" GLAZING BEAD | MOR-X | RIGID PVC |
| 12 | 24.33 | MULTI-POINT LOCK AND KEEPER SET | TRUTH HARDWARE | |
| 13 | 50.00/50.50 | OPERATOR AND BRACKET | TRUTH HARDWARE | |
| 14 | 14.97.00 | SLIDE HINGE | TRUTH HARDWARE | |
| 15 | AP-425 | KERF APTUS VENT BULB SEAL | SCHLEGAL | PLASTIC |
| 16 | | 1/8" x 1 1/16" x 2" SET BLOCK | FRANK LOWE | NEOPRENE |
| 17 | | #8 x 3/4" FH SELF DRILLING SCREW | | STAINLESS STEEL |
| 18 | | #8 x 1/2" FH SELF DRILLING SCREW | | STAINLESS STEEL |
| 19 | | #8 x 5/8" FH SELF DRILLING SCREW | | STAINLESS STEEL |
| 20 | | #10 x 1" PH SELF DRILLING SCREW | | STAINLESS STEEL |
| 21 | | 1/8" THICK PLATE | | ALUMINUM 6063-T6 |
| 22 | SIKAFLEX 552 | GLAZING COMPOUND | SIKA | URETHANE |
| 23 | | SEALANT | | SILICONE |
| 24 | CA310 | T-MULL | VEKA | RIGID PVC |
| 25 | FH-05695 | T-MULLION REINFORCEMENT | 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-15 | F-VENT ATTACHMENT SCREW COVER | MOR-X | RIGID PVC |
| 29 | AC82 | FIXED VENT SCREW COVER CAP | VEKA | RIGID PVC |
| 30 | FS-05694 | F-VENT ATTACH SCREW BACKUP | KEYMARK | ALUMINUM 6063-T6 |
| 31 | | #10 x 2" FH SELF DRILLING SCREW | | STAINLESS STEEL |

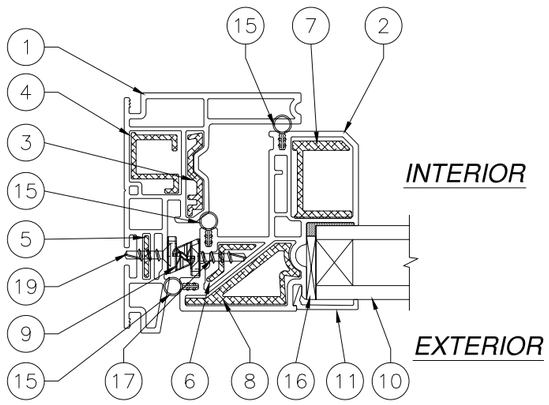
NOTE:
ITEM #21 IS ONLY AT THE MULLION AND IS A SCREW BACKUP PLATE. IT DOES NOT RUN FULL LENGTH OF HEAD AND SILL.




A/3 VERTICAL CROSS SECTION




B/3 VERTICAL CROSS SECTION




C/3 HORIZONTAL CROSS SECTION

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BILL OF MATERIALS AND CROSS SECTIONS

| DRAWN: | DWG NO. | REV |
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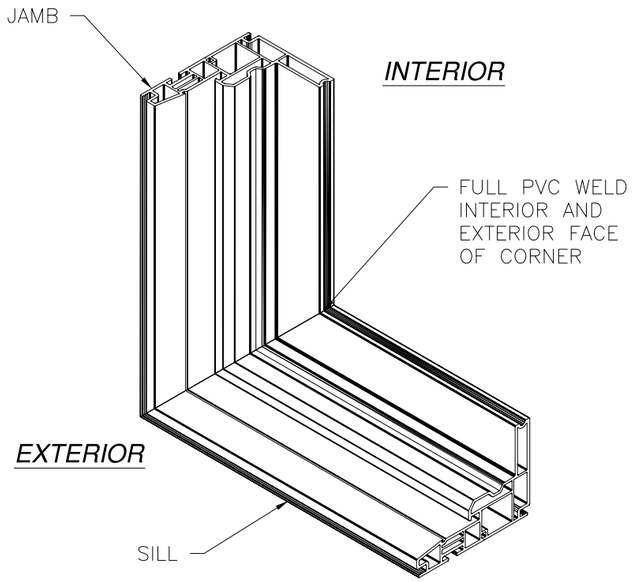
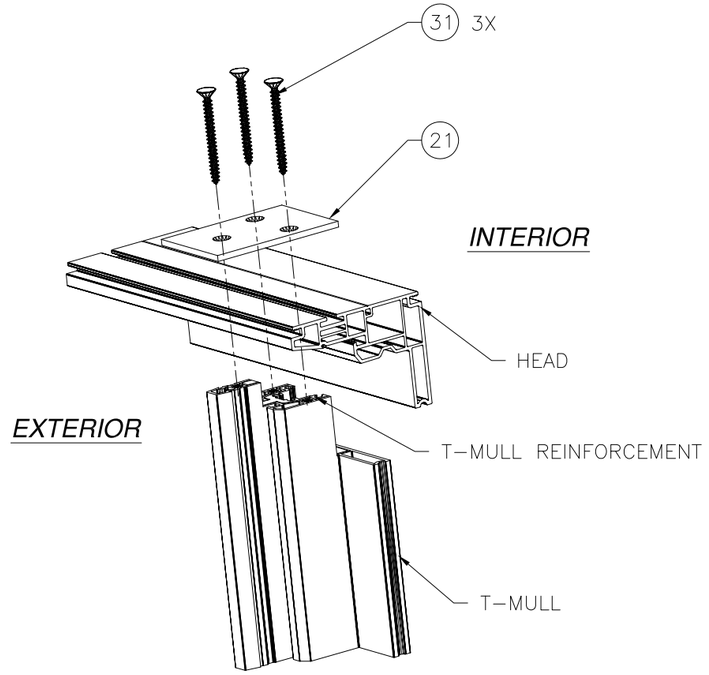
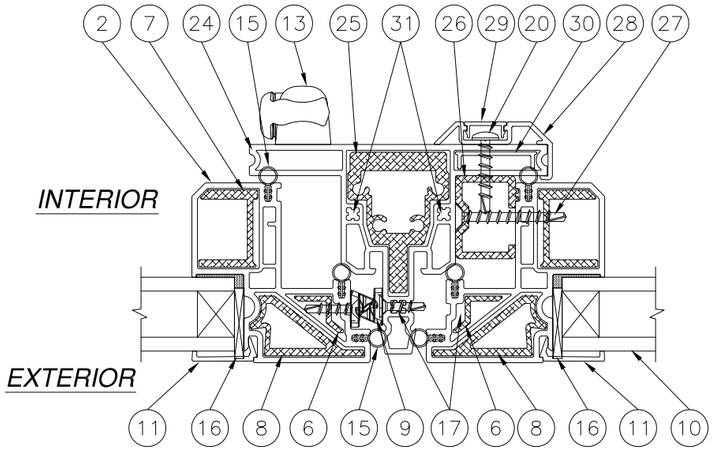


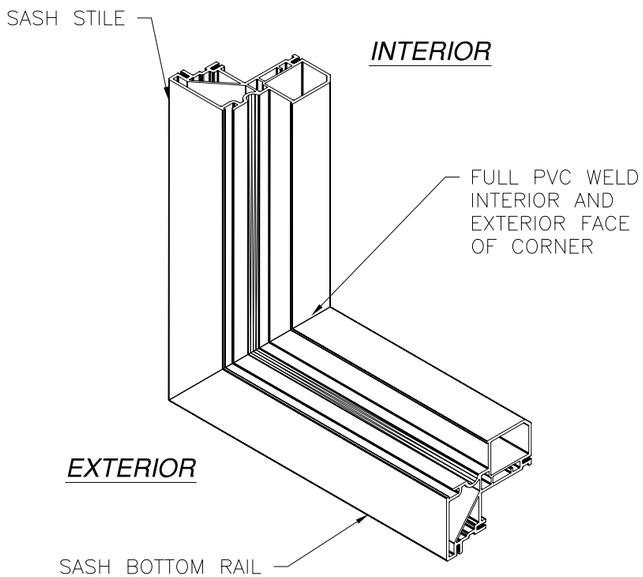

FRAME CONER CONSTRUCTION DETAIL



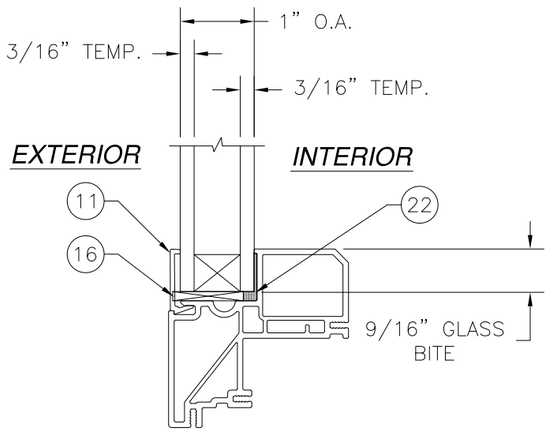

T-MULL ATTACHMENT DETAIL
HEAD SHOWN, SILL SIMILAR



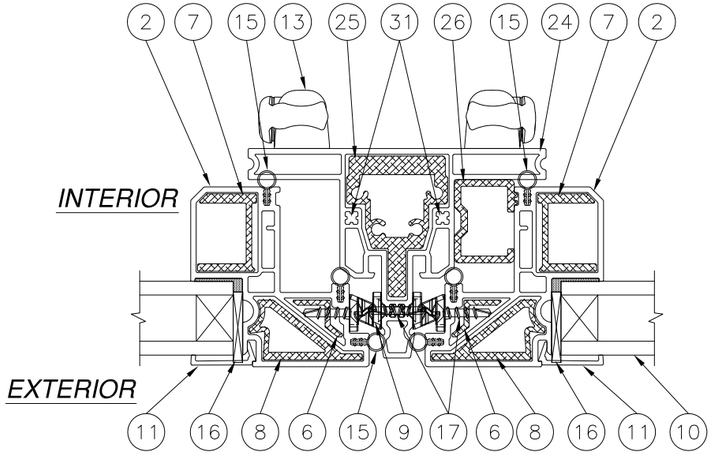

D/4 HORIZONTAL CROSS SECTION
INTEGRAL MULL OPERABLE TO FIXED




SASH CONER CONSTRUCTION DETAIL




GLAZING DETAIL




E/4 HORIZONTAL CROSS SECTION
INTEGRAL MULL OPERABLE TO OPERABLE

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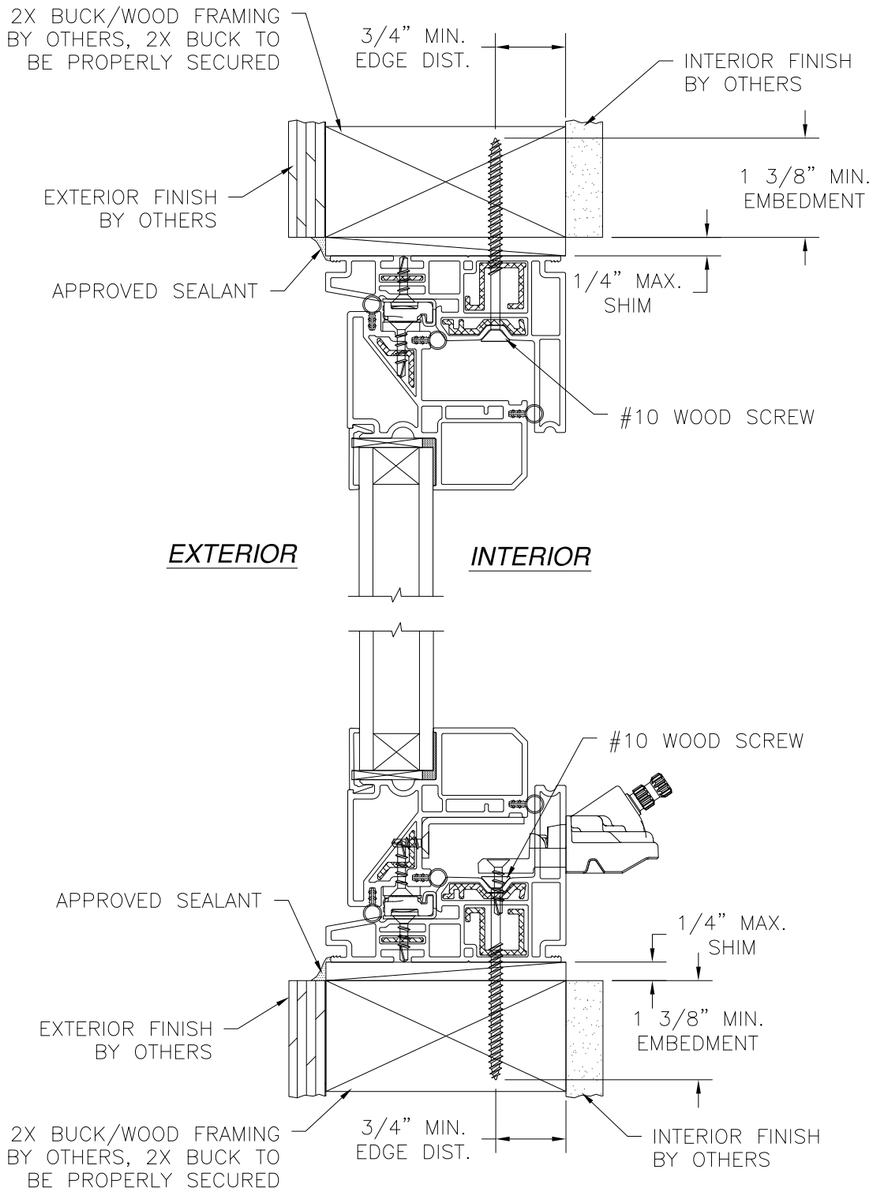
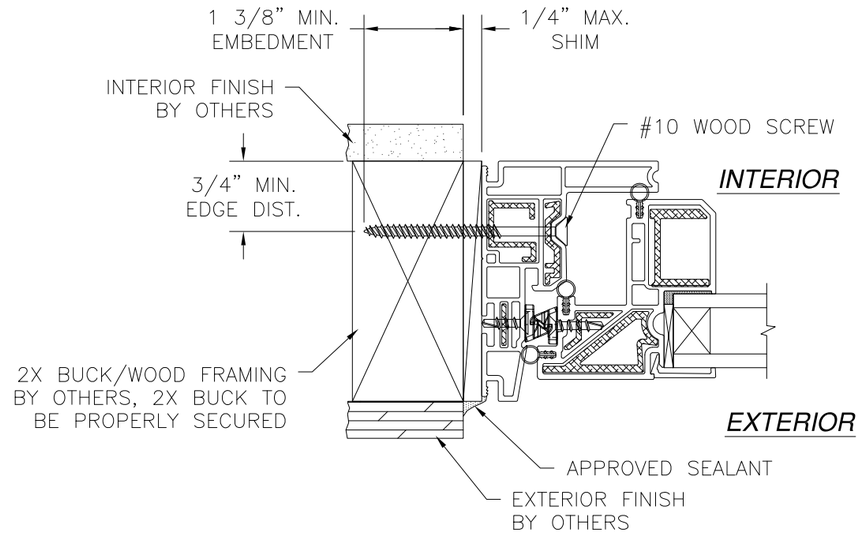



*VERTICAL CROSS SECTION*

*2X BUCK/WOOD FRAMING INSTALLATION*

*OPERABLE SHOWN, FIXED SIMILAR*




*HORIZONTAL CROSS SECTION*

*2X BUCK/WOOD FRAMING INSTALLATION*

*OPERABLE SHOWN, FIXED SIMILAR*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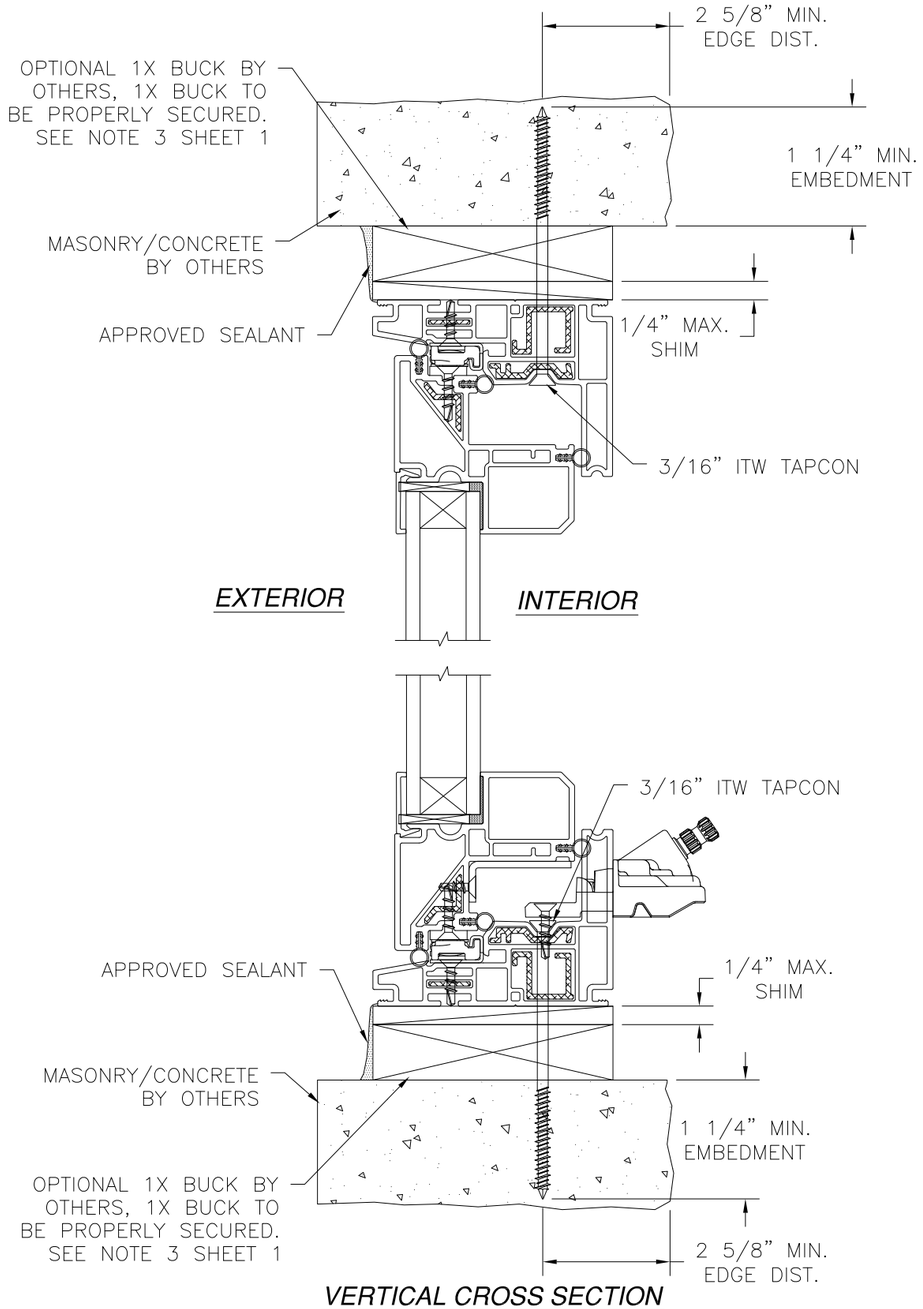
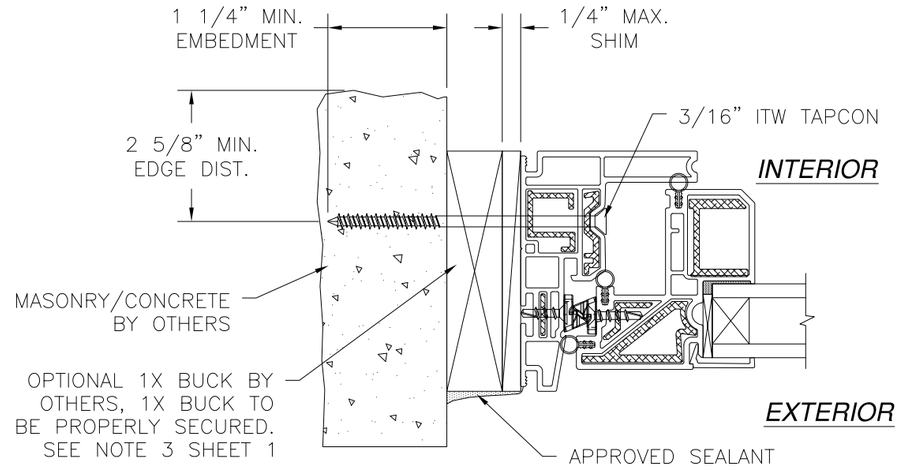



***VERTICAL CROSS SECTION***

*MASONRY/CONCRETE INSTALLATION*
*OPERABLE SHOWN, FIXED SIMILAR*




***HORIZONTAL CROSS SECTION***

*MASONRY/CONCRETE INSTALLATION*
*OPERABLE SHOWN, FIXED SIMILAR*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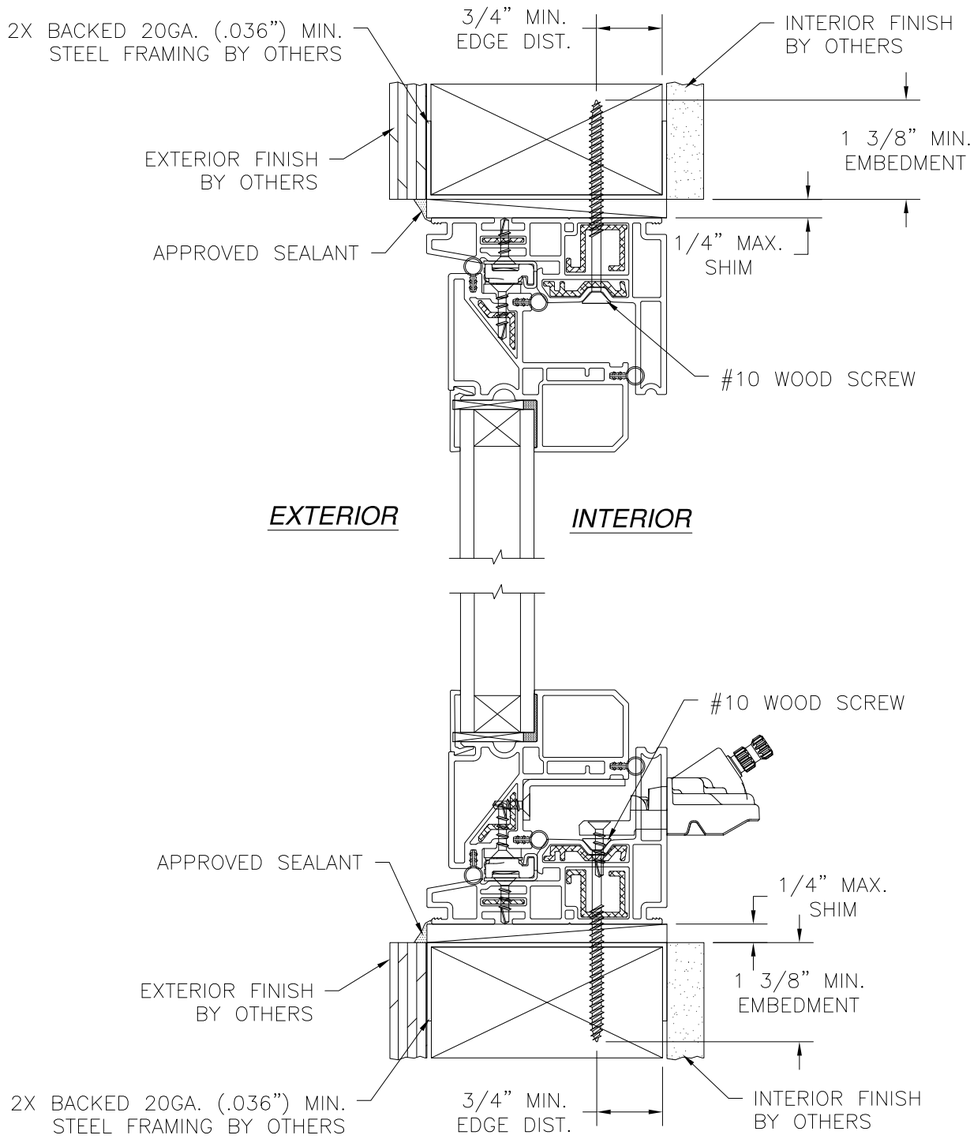
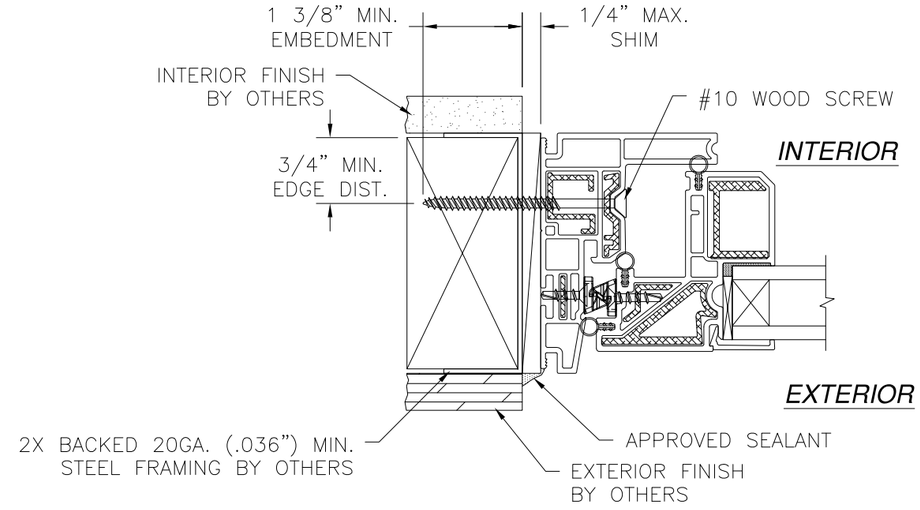



*VERTICAL CROSS SECTION*

*2X BACKED STEEL STUD FRAMING INSTALLATION*

*OPERABLE SHOWN, FIXED SIMILAR*




*HORIZONTAL CROSS SECTION*

*2X BACKED STEEL STUD FRAMING INSTALLATION*

*OPERABLE SHOWN, FIXED SIMILAR*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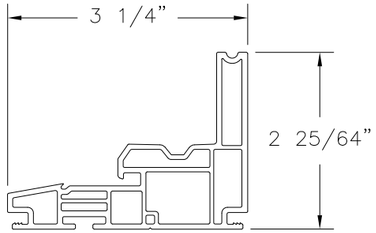
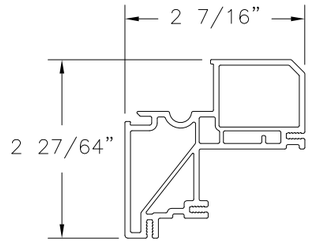
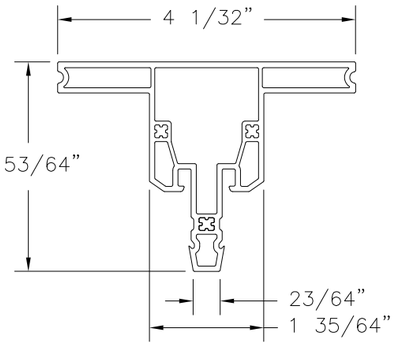


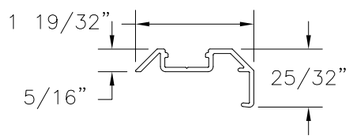

1 FRAME, HEAD, SILL AND JAMB
*EXTRUDED RIGID PVC .071" THICK*



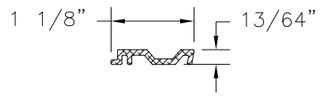

2 PANEL FRAME, STILE AND RAIL
*EXTRUDED RIGID PVC .075" THICK*



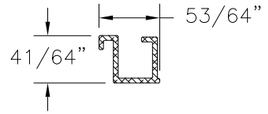

24 T-MULL
*EXTRUDED RIGID PVC .078" THICK*



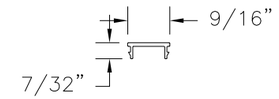

28 FIXED VENT ATTACHMENT SCREW COVER
*EXTRUDED RIGID PVC .060" THICK*



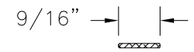

3 FRAME UPPER SCREW RECEIVER
*EXTRUDED ALUMINUM 6063-T6 .075" THICK*



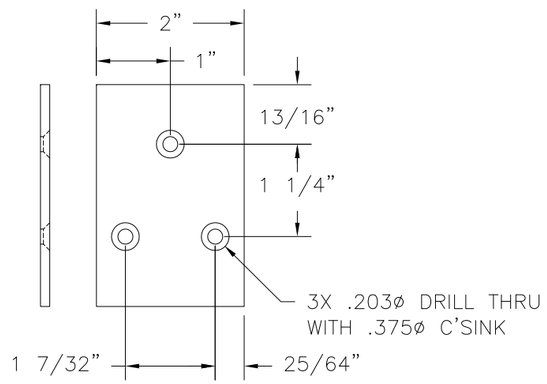

4 FRAME LOWER SCREW RECEIVER
*EXTRUDED ALUMINUM 6063-T6 .065" THICK*



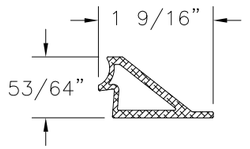

29 FIXED VENT SCREW COVER CAP
*EXTRUDED RIGID PVC .050" THICK*



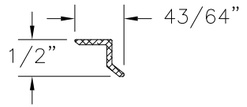

5 FRAME SCREW BACKER
*EXTRUDED ALUMINUM 6063-T6 .058" THICK*



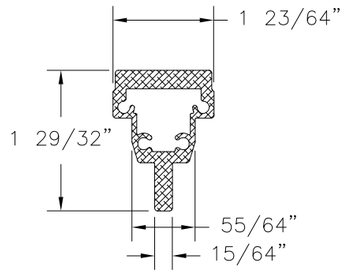

21 1/8" PLATE
*EXTRUDED ALUMINUM 6063-T6 .125" THICK*



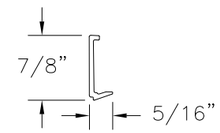

8 VENT EXTERIOR REBAR
*EXTRUDED ALUMINUM 6063-T6 .102" THICK*



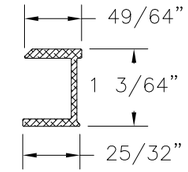

6 TRACK AND SNUBBER SCREW RECEIVER
*EXTRUDED ALUMINUM 6063-T6 .070" THICK*



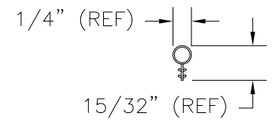

25 T-MULLION REINFORCEMENT
*EXTRUDED ALUMINUM 6063-T6 .25" THICK*



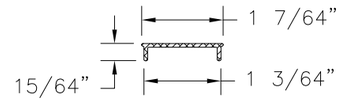

11 1/4" GLAZING BEAD
*EXTRUDED RIGID PVC .039" THICK*



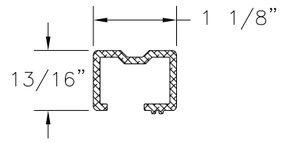

7 VENT INTERIOR SCREW RECEIVER AND REBAR
*EXTRUDED ALUMINUM 6063-T6 .075" THICK*




15 KERF APTUS VENT BULB SEAL
*PLASTIC*




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




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

WinDoor INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

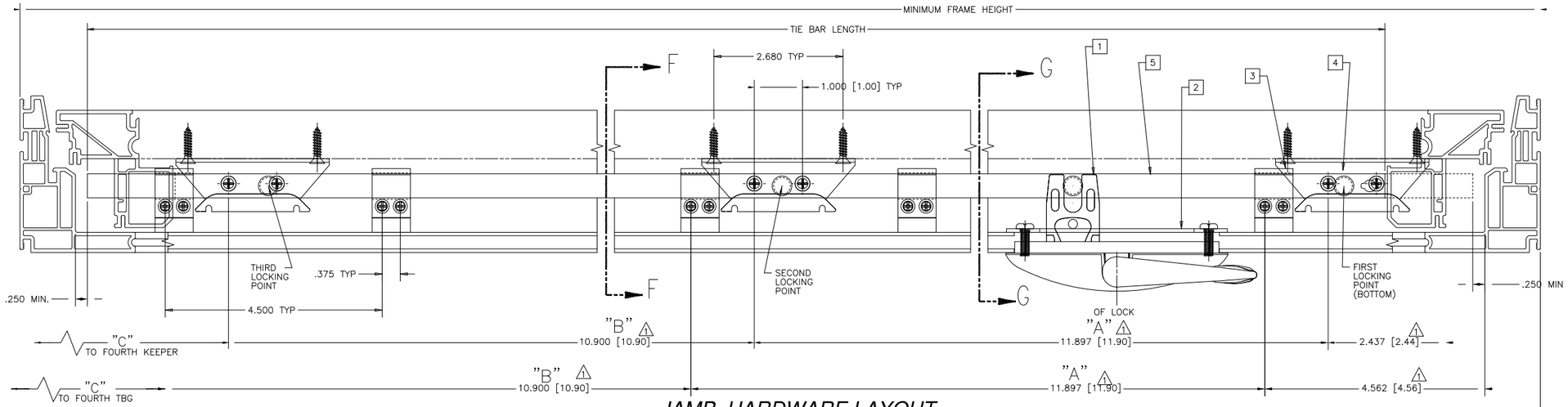
SERIES V-600/V-630 PVC SINGLE AND INTEGRAL MULLED CASEMENT WINDOW - NON-IMPACT COMPONENTS

| DRAWN: | DWG NO. | REV |
|---|---|---|
| TJH | 08-01132 | - |
| SCALE NTS | DATE 11/09/10 | SHEET 8 OF 9 |

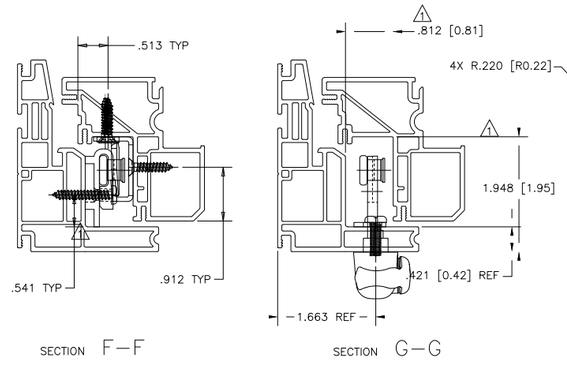
STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

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

| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |

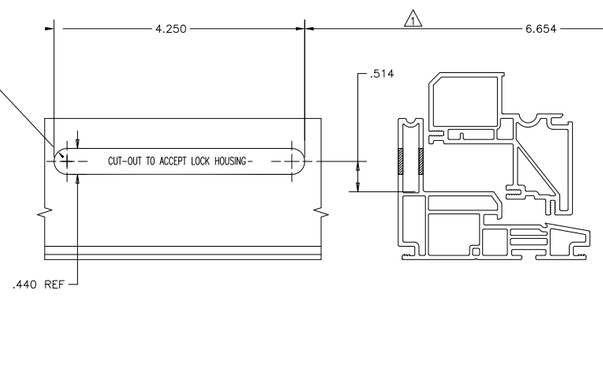



## JAMB HARDWARE LAYOUT










NOTES:

1. ⚠1 ACCURACY OF INDICATED DIMENSIONS IS CRITICAL TO THE FUNCTION OF THE MULTI–POINT LOCK.
2. "C" DIMENSION FOR THE FOURTH LOCKING POINT. FOR KEEPER AND TIE BAR GUIDE PLACEMENT, DIMENSION "C" ORIGINATES AT THE THIRD LOCKING POINT.
3. "A" AND "B" DIMENSIONS ARE CONFIGURED TO GIVE SEQUENTIAL AND PROGRESSIVE LOCKING OF 1/2" TOTAL, STARTING WITH THE FIRST(BOTTOM)LOCKING POINT, WITH A PROGRESSION OF 1/4" FROM THE FIRST LOCKING POINT TO THE SECOND LOCKING POINT, AND A 1/4" FROM THE SECOND LOCKING POINT TO THE THIRD LOCKING POINT. THE FOURTH LOCKING POINT MOVES IN TANDEM WITH THE THIRD LOCKING POINT.
4. TIE BAR TRAVEL IS 1.82"
5. ALL DIMENSIONS ARE AFTER WELD.
6. MOUNTING SCREWS FOR ALL HARDWARE SHOULD PASS THROUGH TWO PVC WALLS OR A SINGLE WALL WITH AN INTERIOR METAL INSERT.
7. SEE TRUTH HARDWARE CATALOG FOR FURTHER INFO ON APP–LICATION OF ALL COMPONENTS.

| MINIMUM FRAME WIDTH | PART NO. | # OF LOCK POINTS | TIE BAR LENGTH | "A" DIM ⚠1 | "B" DIM ⚠1 | "C" DIM ⚠1 | "D" DIM ⚠1 | "E" DIM ⚠1 |
|---|---|---|---|---|---|---|---|---|
| INTERLOCK ROLLER TIE BAR ASSEMBLY | | | | | | | | |
| 75.52" | 13098.92 | 6 PT. | 70.9 | 13.69 | 14.13 | 13.00 | 13.00 | 13.00 |
| 75.52" | 12927.92 | 4 PT. | | 23.90 | 22.90 | 20.00 | | |
| 71.52" | 13097.92 | 5 PT. | 66.9 | 15.90 | 15.90 | 15.90 | 16.13 | |
| 71.52" | 12926.92 | 4 PT. | | 21.90 | 20.90 | 20.00 | | |
| 67.52" | 13096.92 | 5 PT. | 62.9 | 11.90 | 15.90 | 14.90 | 16.00 | |
| 67.52" | 12925.92 | 4 PT. | | 19.90 | 18.90 | 20.00 | | |
| 63.52" | 13095.92 | 3 PT. | 58.9 | 17.89 | 17.06 | 19.75 | | |
| | 11922.92 | 3 PT. | | 27.90 | 26.90 | | | |
| | 11912.92 | 2 PT. | | 54.80 | | | | |
| 59.52" | 13094.92 | 3 PT. | 54.9 | 15.89 | 16.06 | 18.75 | | |
| | 11921.92 | 3 PT. | | 25.90 | 24.90 | | | |
| | 11911.92 | 2 PT. | | 50.80 | | | | |
| 55.52" | 13093.92 | 4 PT. | 50.9 | 13.89 | 16.06 | 16.75 | | |
| | 11920.92 | 3 PT. | | 23.90 | 22.90 | | | |
| | 11910.92 | 2 PT. | | 46.80 | | | | |
| 51.52" | 11919.92 | 3 PT. | 46.9 | 21.90 | 20.90 | | | |
| | 11909.92 | 2 PT. | | 42.80 | | | | |
| 47.52" | 11918.92 | 3 PT. | 42.9 | 19.90 | 18.90 | | | |
| | 11908.92 | 2 PT. | | 38.80 | | | | |
| 43.52" | 11917.92 | 3 PT. | 38.9 | 17.90 | 16.90 | | | |
| | 11907.92 | 2 PT. | | 34.80 | | | | |
| 39.52" | 11916.92 | 3 PT. | 34.9 | 15.90 | 14.90 | | | |
| | 11906.92 | 2 PT. | | 30.80 | | | | |
| 35.52" | 11915.92 | 3 PT. | 30.9 | 13.90 | 12.90 | | | |
| | 11905.92 | 2 PT. | | 26.80 | | | | |
| 31.52" | 11914.92 | 3 PT. | 26.9 | 11.90 | 10.90 | | | |
| | 11904.92 | 2 PT. | | 22.80 | | | | |
| 27.52" | 11903.92 | 2 PT. | 22.9 | 18.80 | | | | |
| 23.52" | 11902.92 | 2 PT. | 18.9 | 14.80 | | | | |
| 19.52" | 11901.92 | 2 PT. | 14.9 | 10.80 | | | | |

| ITEM # | PART NO. | 2 PT. | 3 PT. | 4 PT. | DESCRIPTION |
|---|---|---|---|---|---|
| | | QTY | | | |
| – | 19225 | 6 | 9 | 12 | SCREW 8X3/4 PH FH SMS SS410 (KEEPER) |
| – | 19230.92 | 4 | 6 | 8 | SCREW 8X1 PH PH SMS YZP (TBG) |
| – | 19298.92 | 2 | 2 | 2 | SCREW 10–24X9/16 F PH PH MS YZ(LOCK) |
| 5 | SEE CHART | 1 | 1 | 1 | TIE BAR ASSEMBLY |
| 4 | 32832.00.0500 | 2 | 3 | 4 | KEEPER, NON–HANDED SST |
| 3 | 33263.00.0001 | 2 | 3 | 4 | TIE BAR GUIDE |
| 2 | 21600.92 | 1 | 1 | 1 | SUPPORT PLATE |
| 1 | 24.33.XX.004 | 1 | 1 | 1 | LOCK ASSEMBLY |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Luis R. Lomas P.E.
Texas No. 101889