

**V101 uPVC HOPPER OVER TILT TURN COMBO ASSEMBLY**  
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 IRC, 2006 IBC WITH STATE OF TEXAS MODIFICATIONS.
  - 2) WOOD 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. SELECTION OF COATING OR MEMBRANE 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.
  - 6) UNITS MUST BE GLAZED PER ASTM E1300.
  - 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/CONCRETE USE 1/4" CONCRETE ANCHORS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 10) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 11) FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
  - 12) ALL FASTENERS TO BE CORROSION RESISTANT.
  - 13) 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 3,192 PSI.
    - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
    - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATION, ANCHORING AND NOTES
2 - 3	INSTALLATION DETAILS
4	HARDWARE LOCATIONS AND COMPONENTS

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

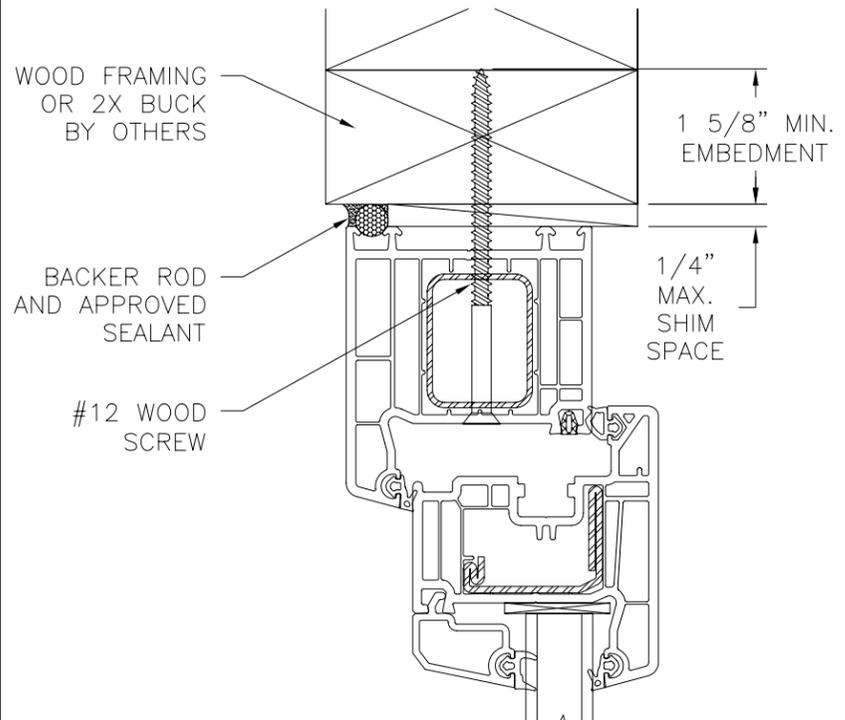
V101 uPVC HOPPER OVER TILT TURN COMBO ASSEMBLY 48 X 108 ELEVATION AND NOTES

DRAWN: V.L.	DWG NO. 08-01308	REV -
SCALE NTS	DATE 07/20/11	SHEET 1 OF 4

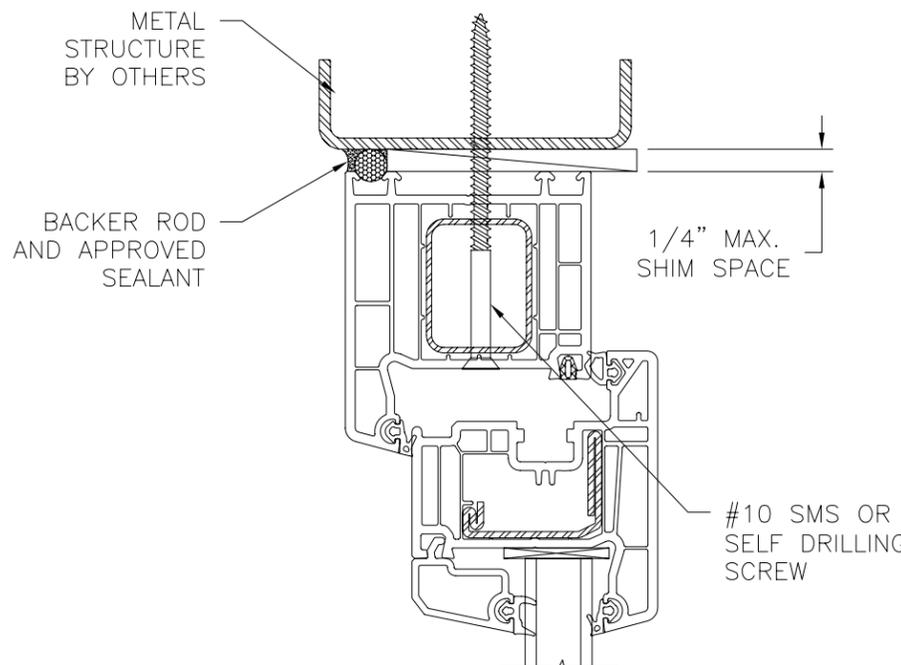
SIGNED: 07/25/11

Luis R. Lomas P.E.  
TX No.: 101889

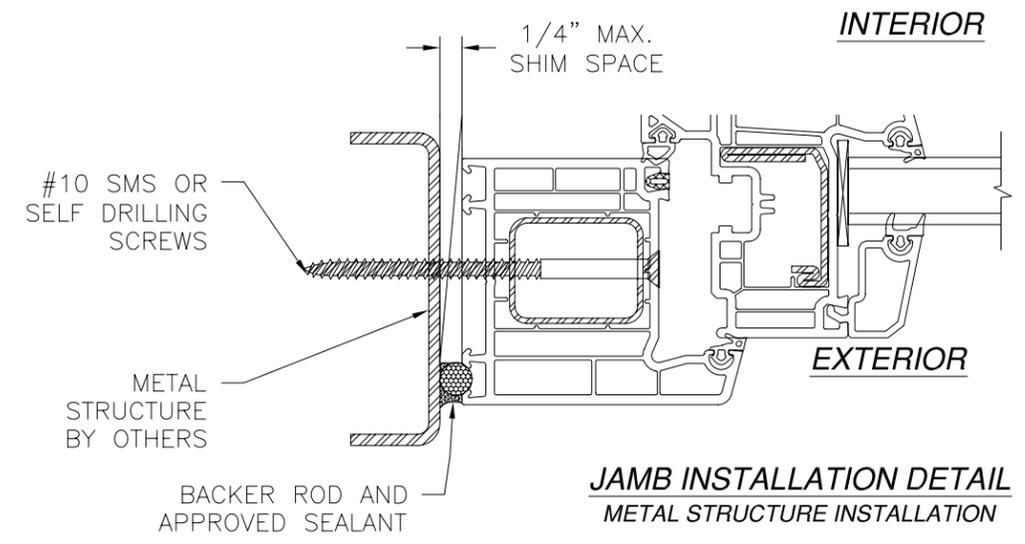
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



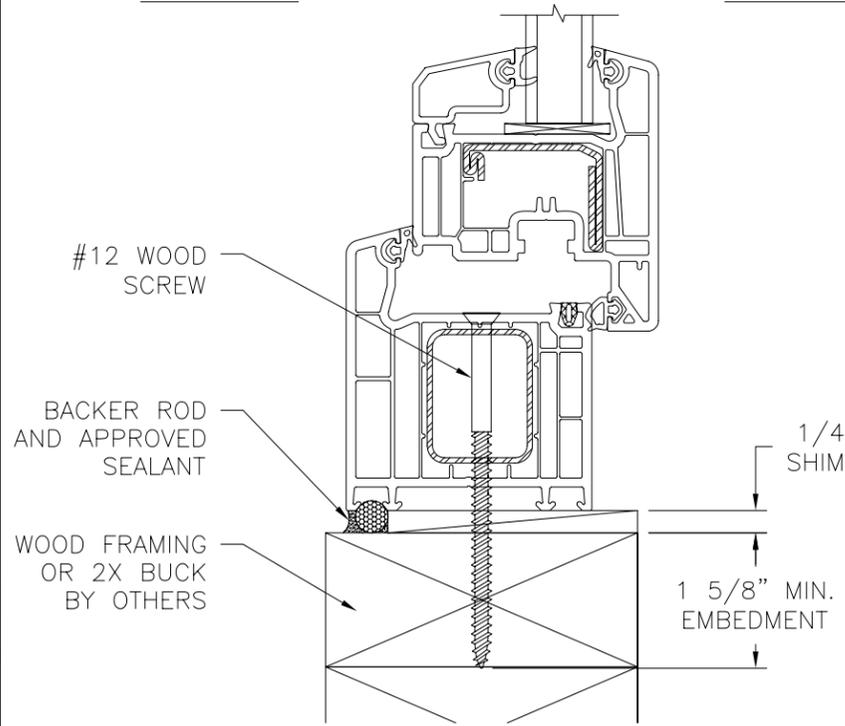
**EXTERIOR** **INTERIOR**



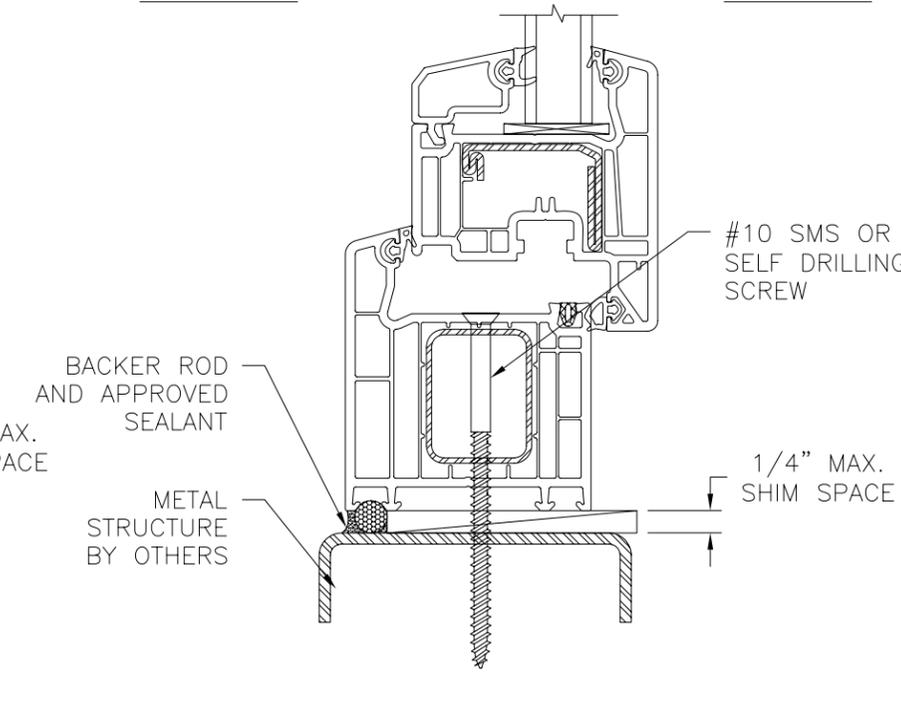
**EXTERIOR** **INTERIOR**



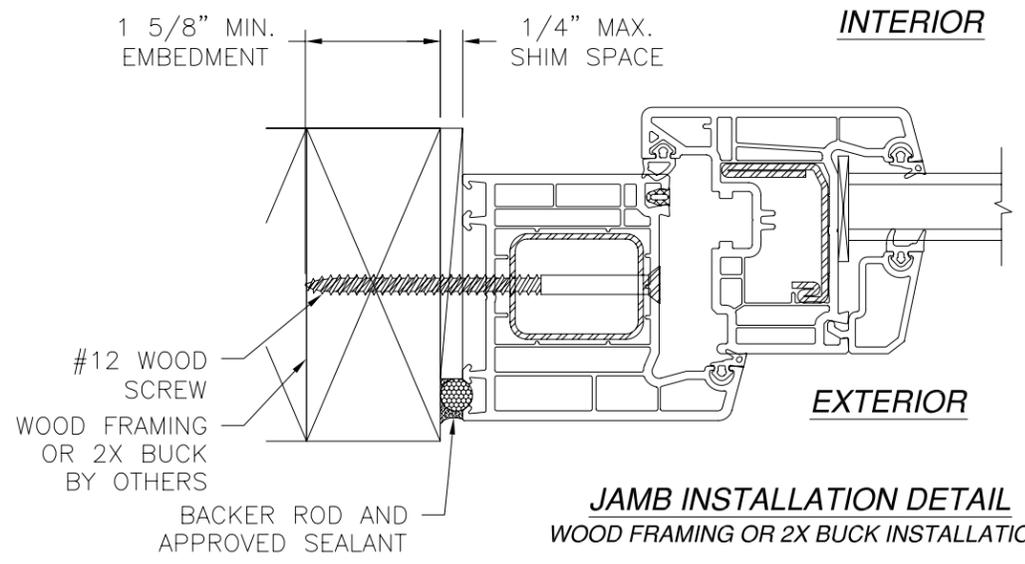
**JAMB INSTALLATION DETAIL  
METAL STRUCTURE INSTALLATION**



**VERTICAL CROSS SECTION  
WOOD FRAMING OR 2X BUCK INSTALLATION**



**VERTICAL CROSS SECTION  
METAL STRUCTURE INSTALLATION**



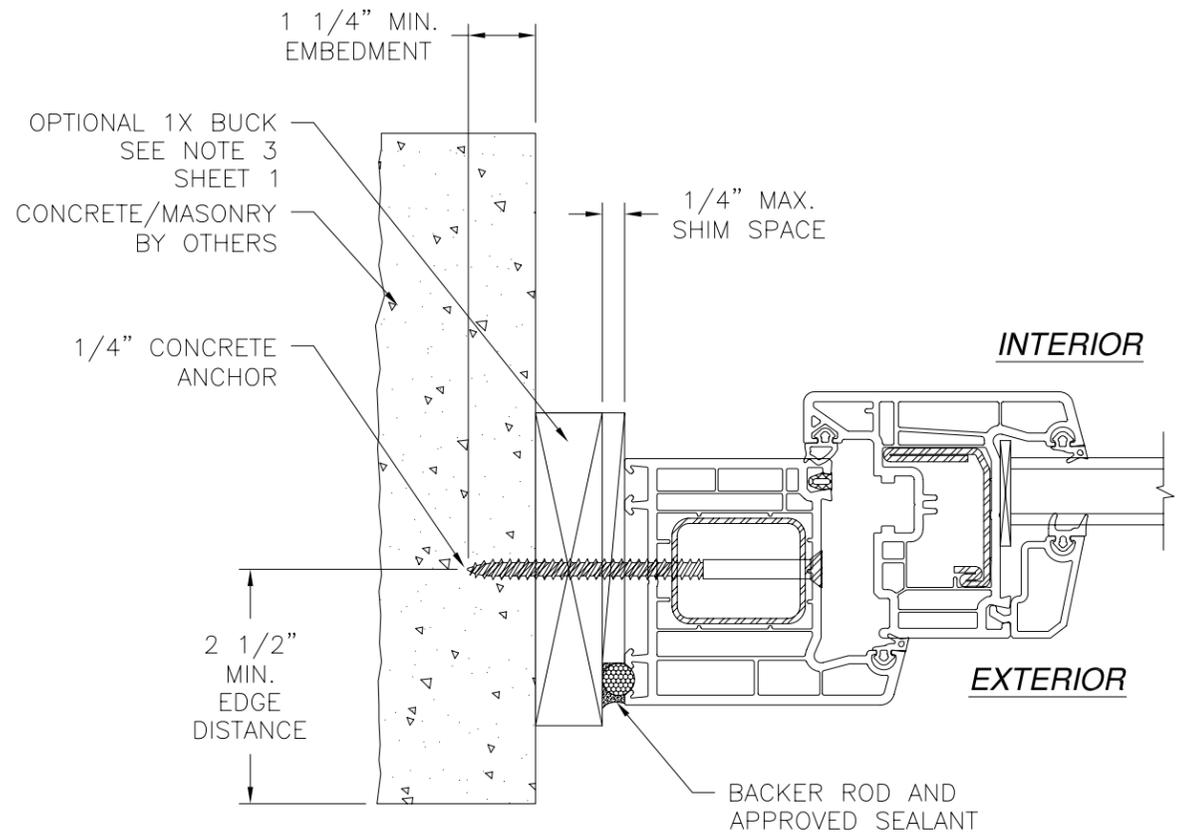
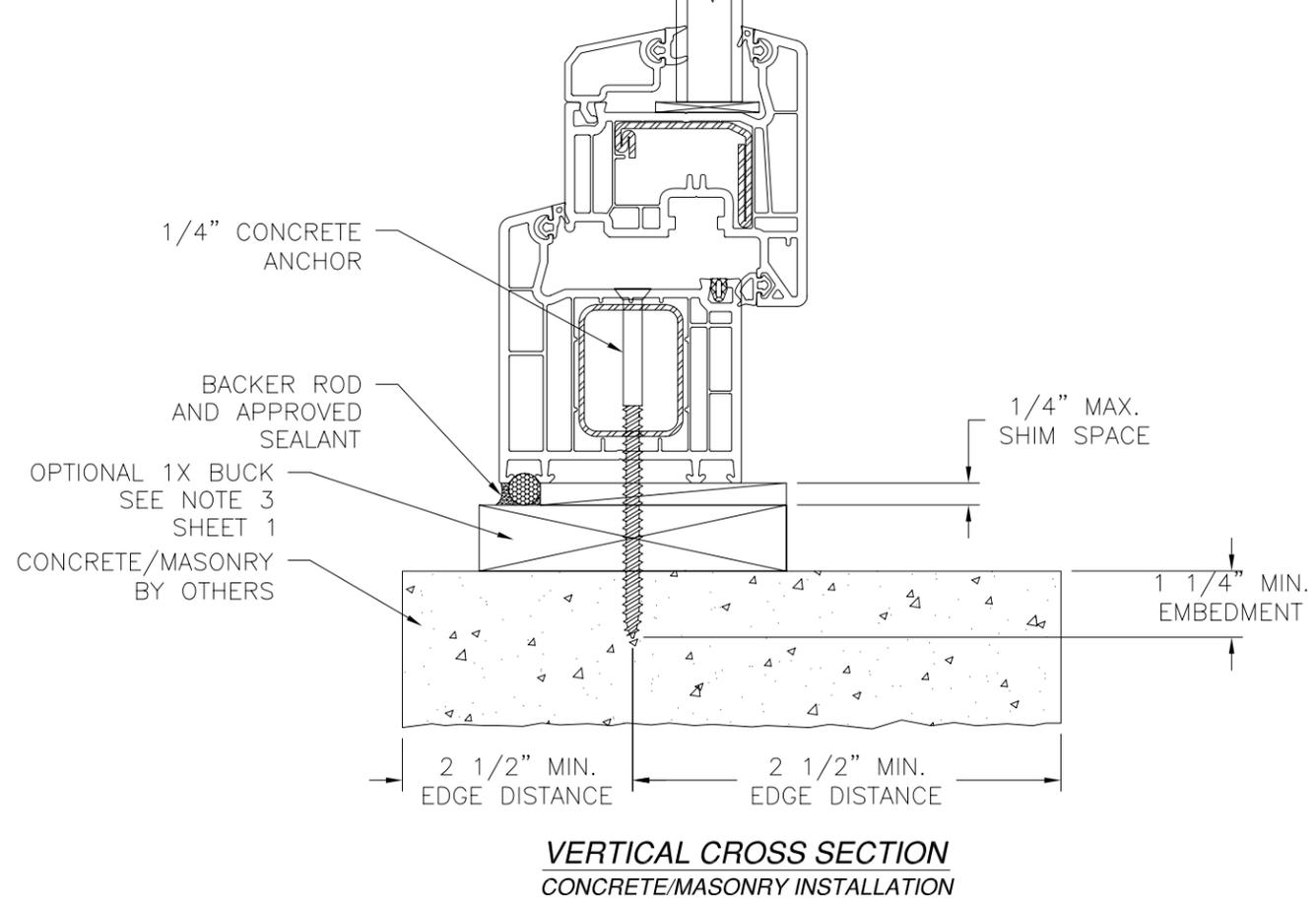
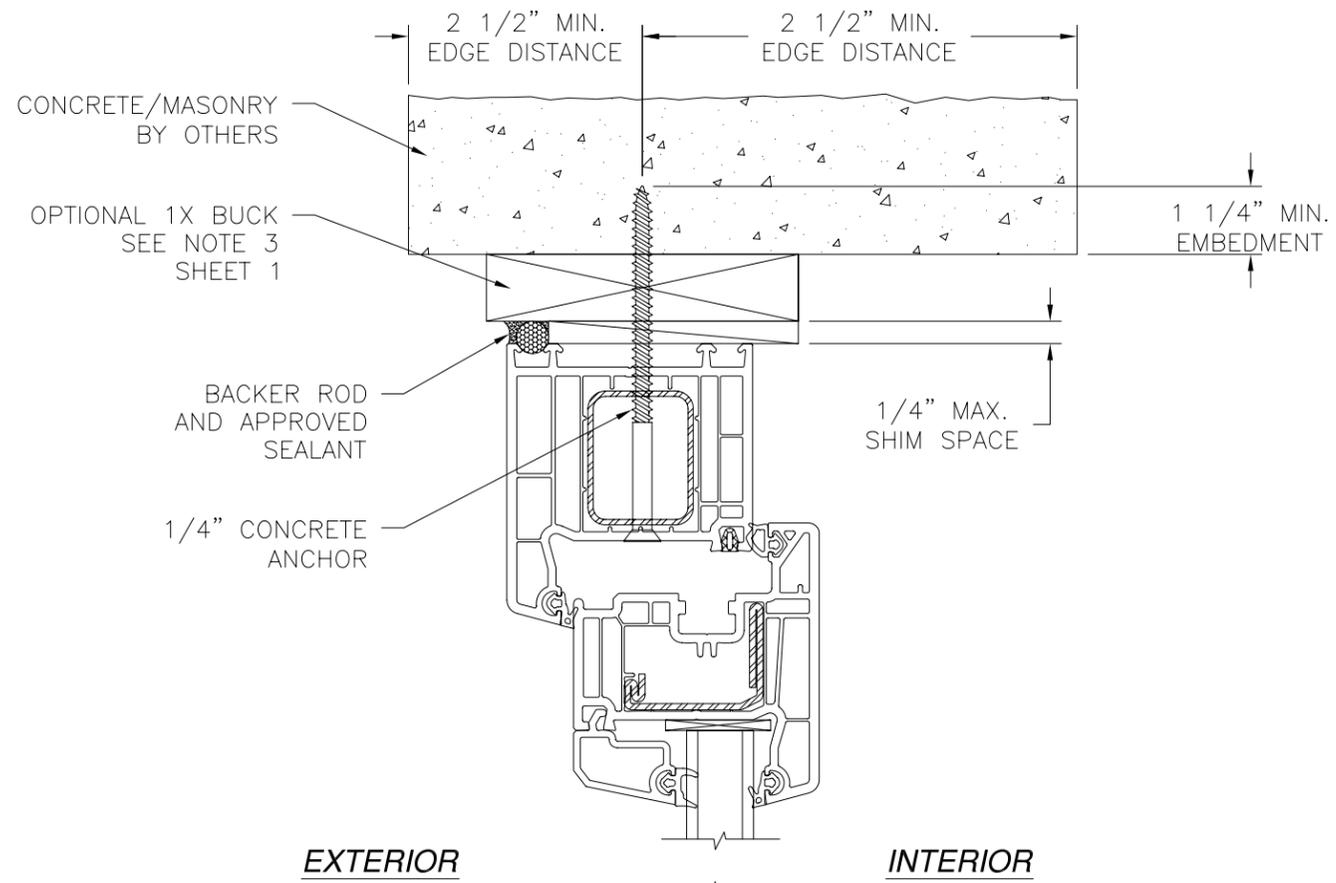
**JAMB INSTALLATION DETAIL  
WOOD FRAMING OR 2X BUCK INSTALLATION**

NOTE: - SEALANT AND BACKER ROD MATERIAL AND JOINT DESIGN BY OTHERS.  
- INTERIOR AND EXTERIOR FINISHES BY OTHERS OMITTED FOR CLARITY.

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windowinc.com
V101 uPVC HOPPER OVER TILT TURN COMBO ASSEMBLY 48 X 108 INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01308	REV -
SCALE NTS	DATE 07/20/11	SHEET 2 OF 4

Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

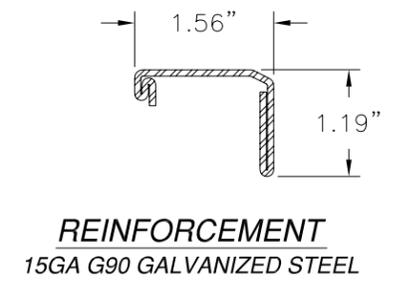
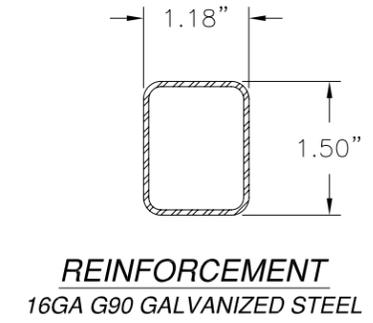
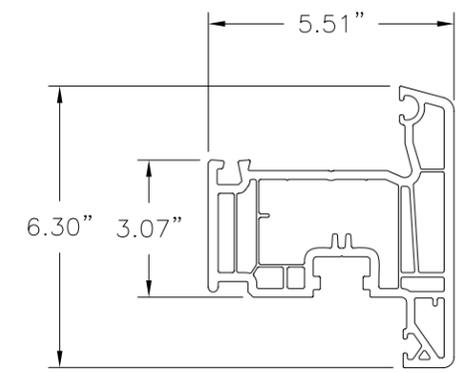
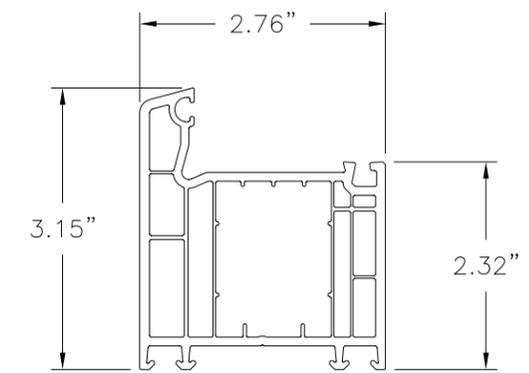
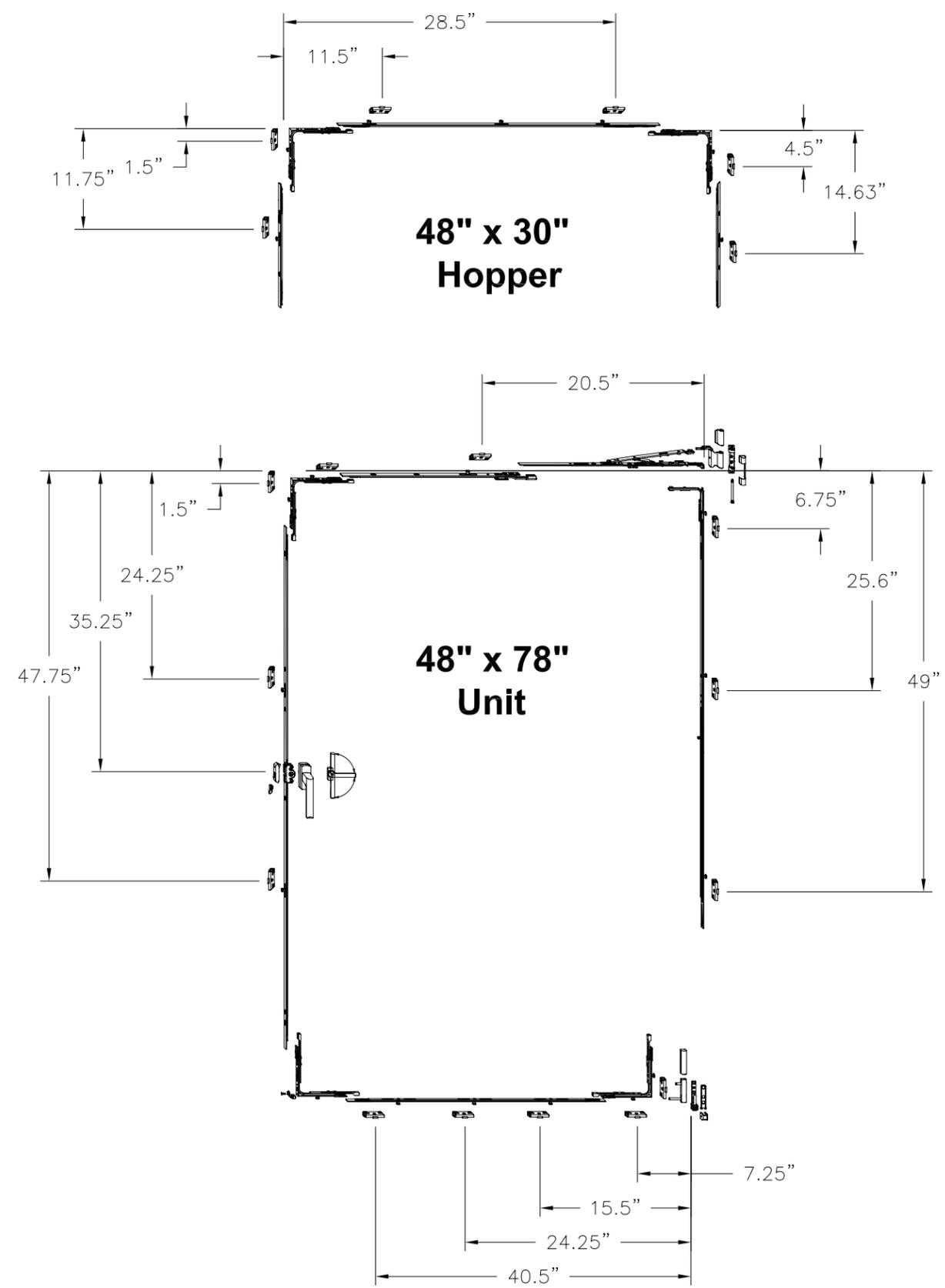


NOTE: - SEALANT AND BACKER ROD MATERIAL AND JOINT DESIGN BY OTHERS.  
- INTERIOR AND EXTERIOR FINISHES BY OTHERS OMITTED FOR CLARITY.

<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com
V101 uPVC HOPPER OVER TILT TURN COMBO ASSEMBLY 48 X 108 INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-01308	REV -
SCALE NTS	DATE 07/20/11	SHEET 3 OF 4

Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



<b>WinDoor</b> INCORPORATED		7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
V101 uPVC HOPPER OVER TILT TURN COMBO ASSEMBLY 48 X 108 HARDWARE LOCATIONS AND COMPONENTS			
DRAWN: V.L.	DWG NO. 08-01308	REV -	
SCALE NTS	DATE 07/20/11	SHEET 4 OF 4	

Luis R. Lomas P.E.  
TX No.: 101889