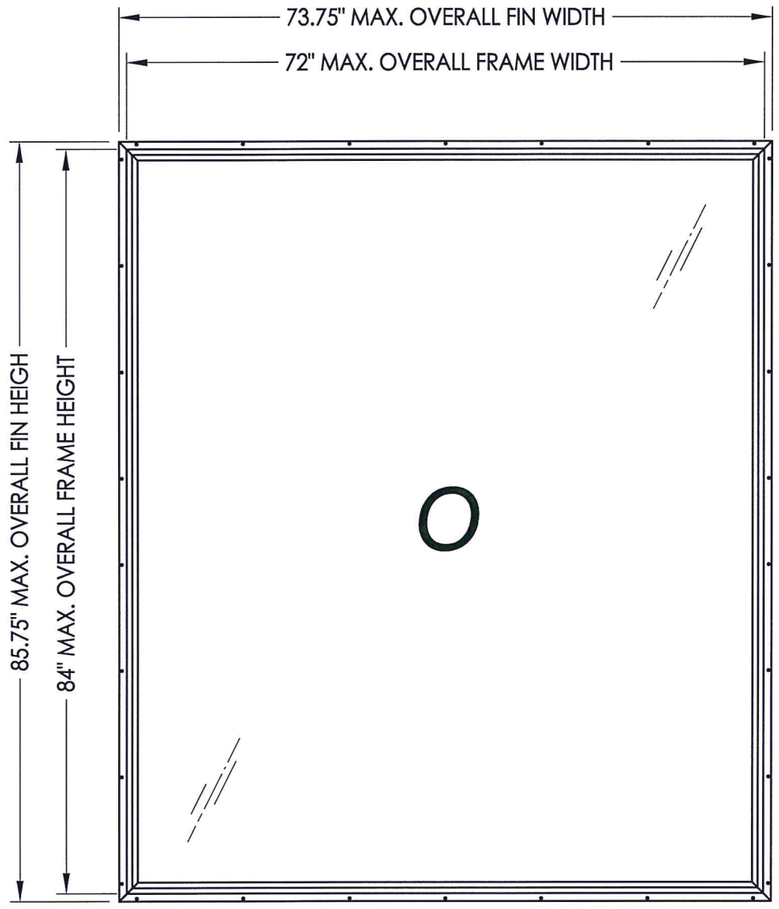
ATRIUM
WINDOWS AND DOORS
300 WELCOME CENTER BLVD.
WELCOME, NC 27374

SERIES 300
ALUMINUM FIXED WINDOW
w/ NAILING FIN
"NON-IMPACT"



EVALUATED FOR USE IN THE STATE OF TEXAS

The Fixed Window described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Cross sections
3	Buck & frame anchoring
4	Bill of materials, glazing details & components

MAX. O.A. FIN DIMENSION	MAX. O.A. FRAME. DIMENSION	GLAZING	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
73.75" X 61.75"	72.0" X 60.0"	G1	+50.0	-50.0
73.75" X 85.75"	72.0" X 84.0"	G2	+50.0	-50.0

NOTE: VERTICAL ORIENTATION SHOWN - HORIZONTAL ORIENTATION ALSO APPROVED

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
1-5-16

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ATRIUM FIXED WINDOW
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	BY

DATE: 10/26/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4570
SHEET 1 OF 4

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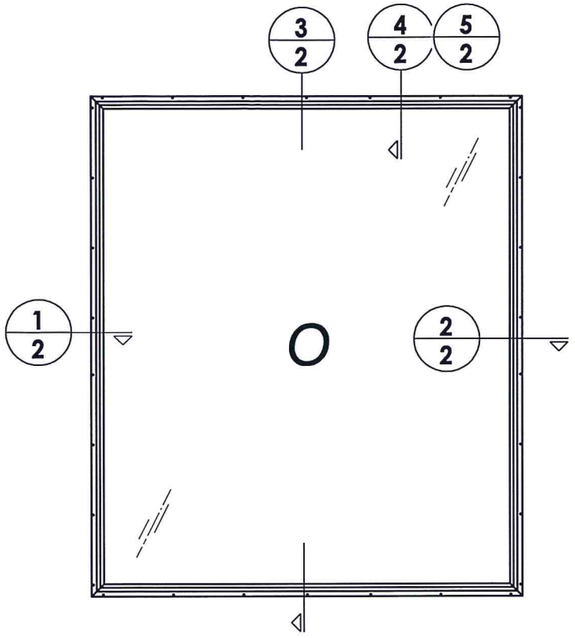
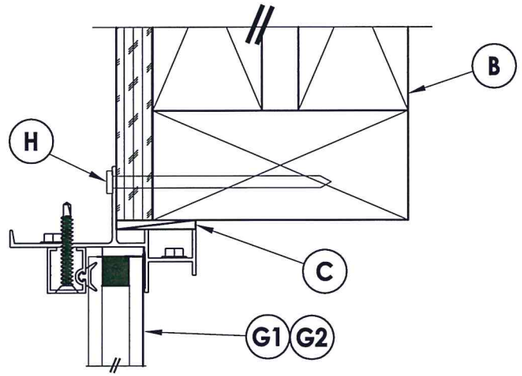
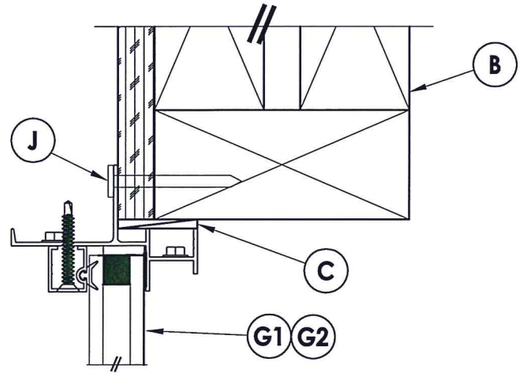
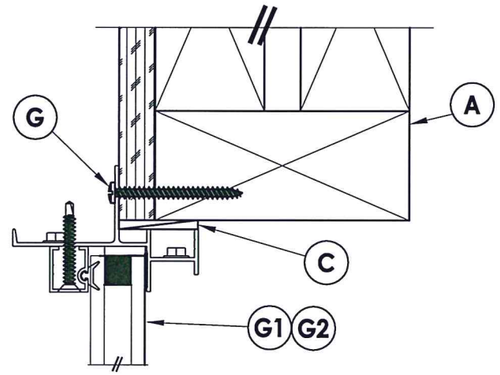




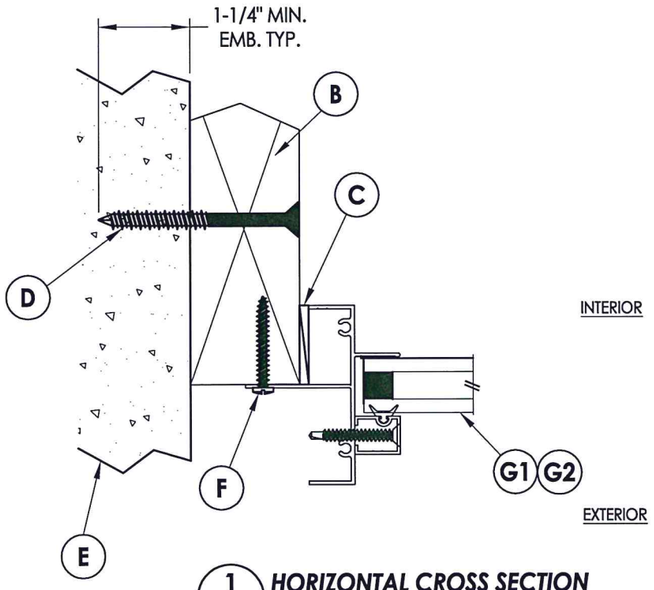
4/2 VERTICAL CROSS SECTION
Shown w/ Alternate Nailing



5/2 VERTICAL CROSS SECTION
Shown w/ Alternate Nailing



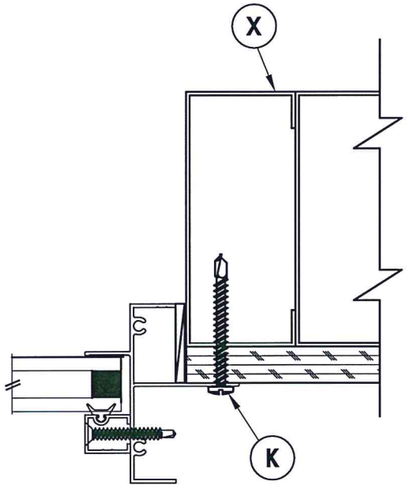
EXTERIOR INTERIOR



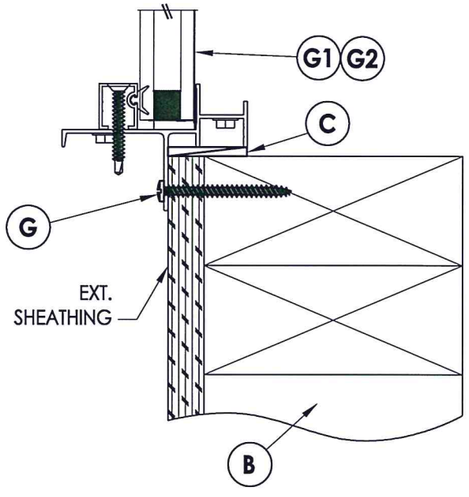
INTERIOR

EXTERIOR

1/2 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck Masonry Construction



2/2 HORIZONTAL CROSS SECTION
Shown w/ Steel Stud Construction



3/2 VERTICAL CROSS SECTION
Shown w/ Stud Construction

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: ATRIUM FIXED WINDOW

PART OR ASSEMBLY: CROSS SECTIONS

NO.	DATE	BY
REVISIONS		

DATE: 10/26/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4570
SHEET 2 OF 4

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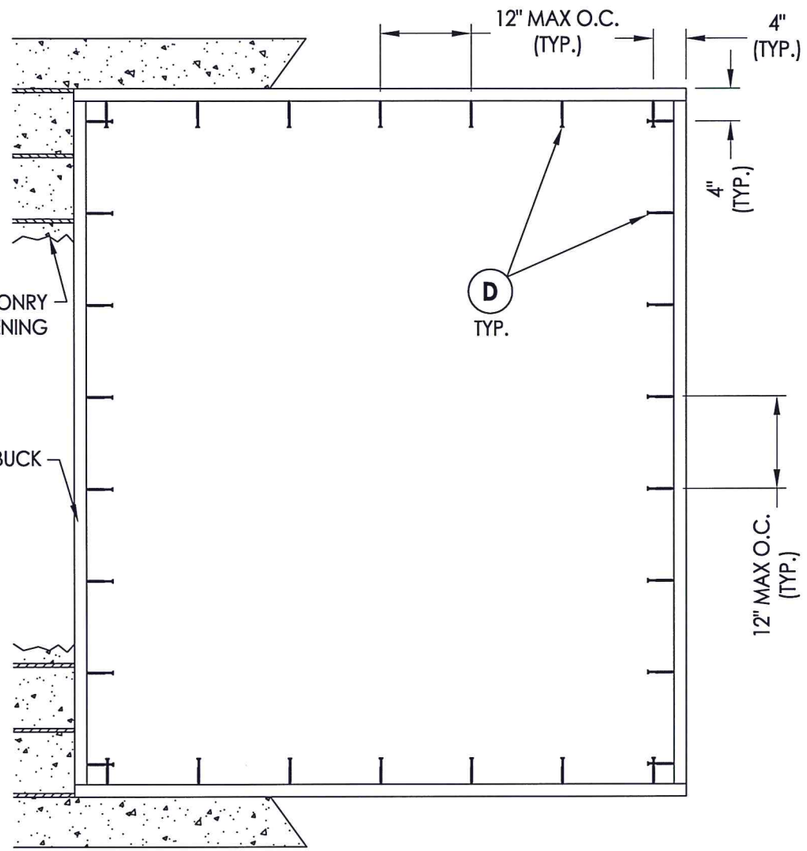
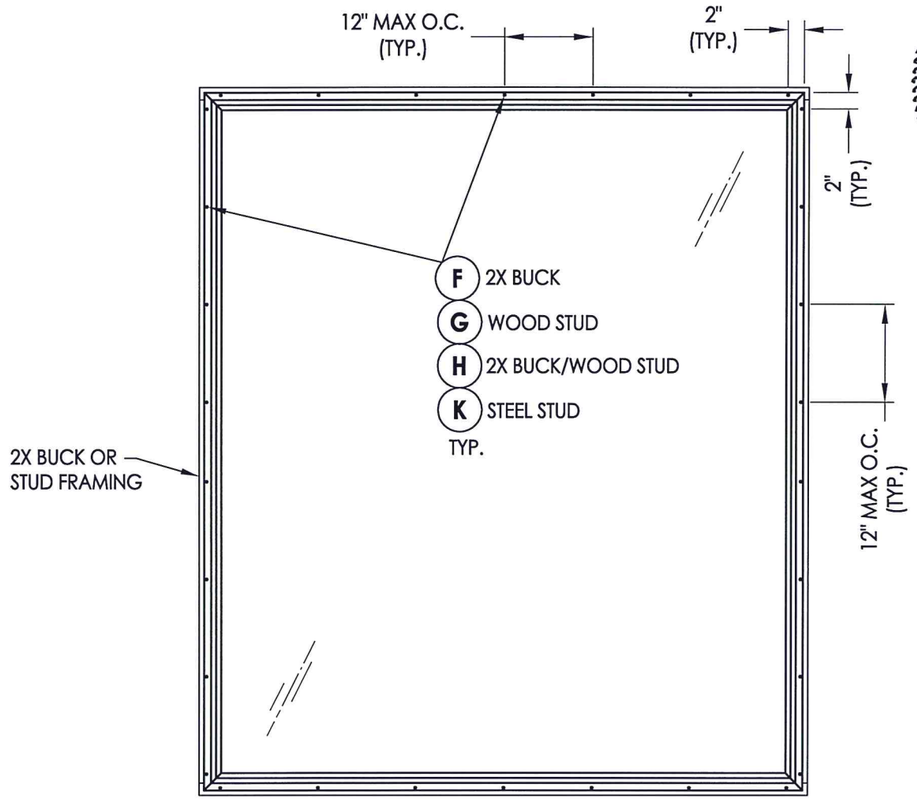
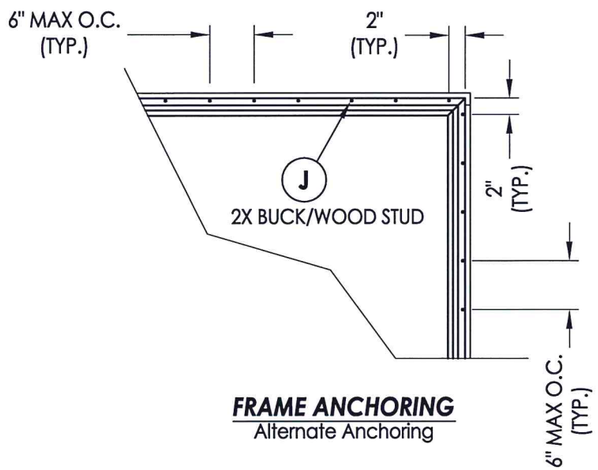


BUCK ANCHORING



FRAME ANCHORING



FRAME ANCHORING
Alternate Anchoring

CONCRETE ANCHOR NOTES:

1. *Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.*
2. *Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.*
3. *Concrete anchor table:*

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

1. *Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.*

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PRODUCT: *ATRIUM FIXED WINDOW*

PART OR ASSEMBLY: *BUCK & FRAME ANCHORING*

NO.	DATE	BY

REVISIONS

DATE: 10/26/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4570
SHEET 3 OF 4

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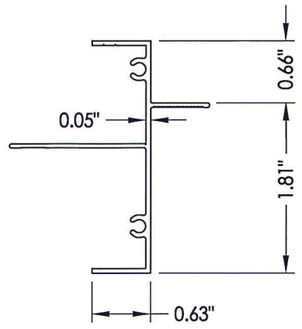
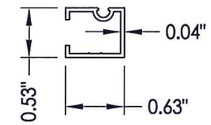
BILL OF MATERIALS

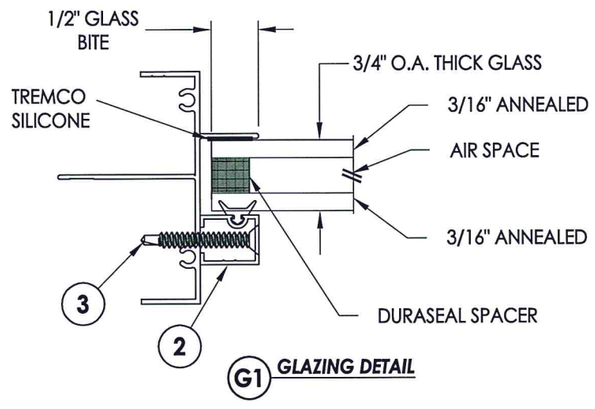
ITEM #	DESCRIPTION	MATERIAL
B	2X FRAMING (SG >= 0.42)	WOOD
C	1/8" MAX. SHIM SPACE	-
D	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1" PH SMS (7/8" MIN. EMBEDMENT)	STEEL
G	#8 X 1-1/2" PH SMS (7/8" MIN. EMBEDMENT)	STEEL
H	10d COMMON NAIL (0.148" Ø Shank, 0.312" Ø Head)	STEEL
J	10 GAUGE ROOFING NAIL (1-3/4" LENGTH w/ 7/16" Ø Head)	STEEL
K	#10 SELF-DRILLING SMS	STEEL
X	METAL STUD Min. Thk 0.033" (ASTM A653 Grade 33, Fy=33 ksi min., Fu=45 ksi min.)	-
1	FRAME	6063-T5 ALUM
2	GLAZING BEAD w/ 3/16" PVC SEAL	6063-T5 ALUM
3	#8 X 1" SELF-DRILLING SMS (2" FROM CORNERS & 12" O.C.)	STEEL



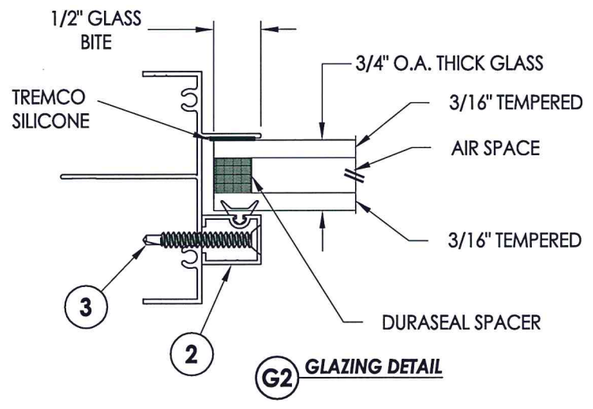
1 **FRAME**



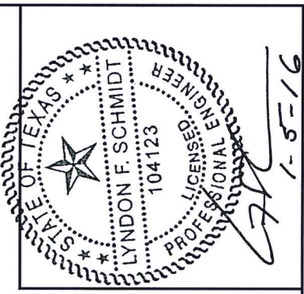
2 **GLAZING BEAD**



G1 **GLAZING DETAIL**



G2 **GLAZING DETAIL**



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *ATRIUM FIXED WINDOW*

PART OR ASSEMBLY: *BILL OF MATERIALS, GLAZING DETAIL & COMPONENTS*

NO.	DATE	BY	REVISIONS

DATE: 10/26/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4570
SHEET 4 OF 4

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