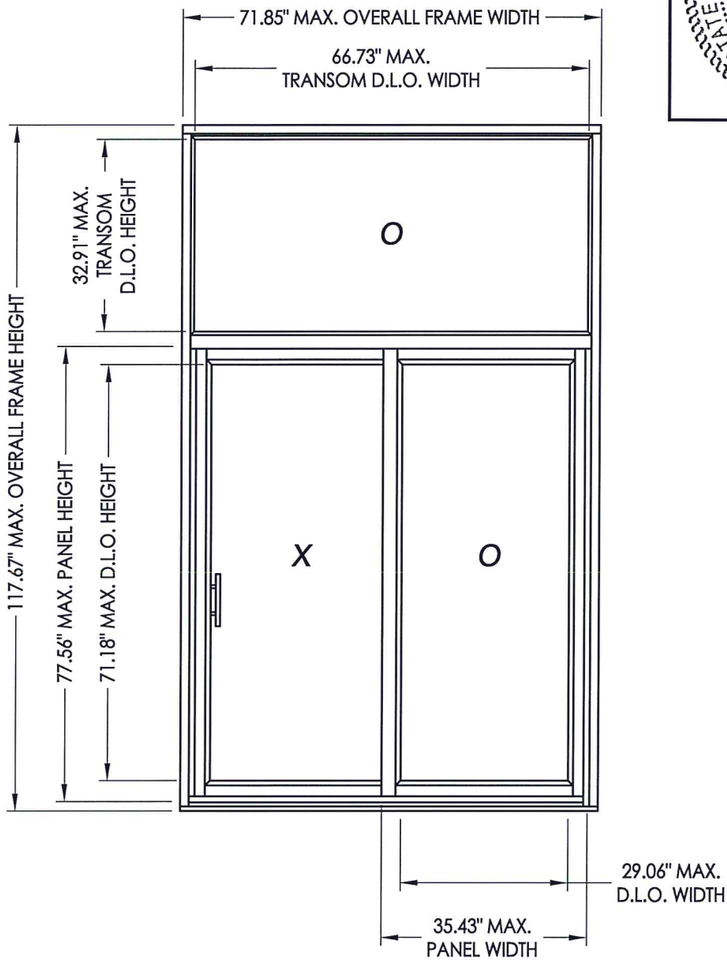
WINCORE™
WINDOWS & DOORS
250 Staunton Turnpike, Parkersburg, WV 26104

# 400/500 Series
# Vinyl Sliding Patio Door
# w/ Transom
## "NON-IMPACT"




EVALUATED FOR USE IN THE STATE OF TEXAS

The Wincore Sliding Patio Door described herein complies with the 2006 International Residential Code (IRC), Sections R308.6 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 roof covering.
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.

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| 1 | Typical elevation, design pressures & general notes |
| 2 | Horizontal & vertical cross sections |
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| 5 | Bill of materials & components |


| OVERALL FRAME DIMENSION | MAX. PANEL DIMENSION | MAX. DOOR D.L.O. DIMENSION | MAX. TRANSOM D.L.O. DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) | |
|---|---|---|---|---|---|---|
| | | | | | POSITIVE | NEGATIVE |
| 71.85" x 117.67" | 35.43" X 77.56" | 29.06" X 71.18" | 66.73" X 32.91" | G1, G2, G3 | +40.0 | -40.0 |

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED
PROFESSIONAL ENGINEER
12/1/15


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


PRODUCT: 400/500 SERIES SLIDING PATIO DOORS

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|

DATE: 9/4/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4469
SHEET 1 OF 5

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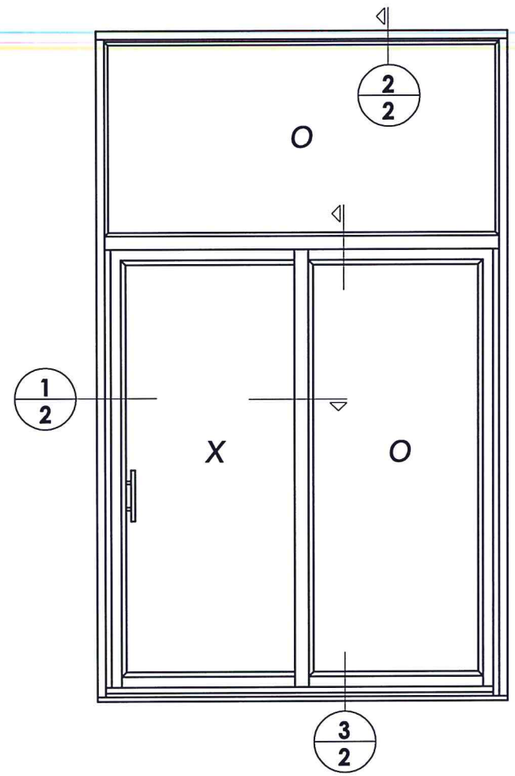
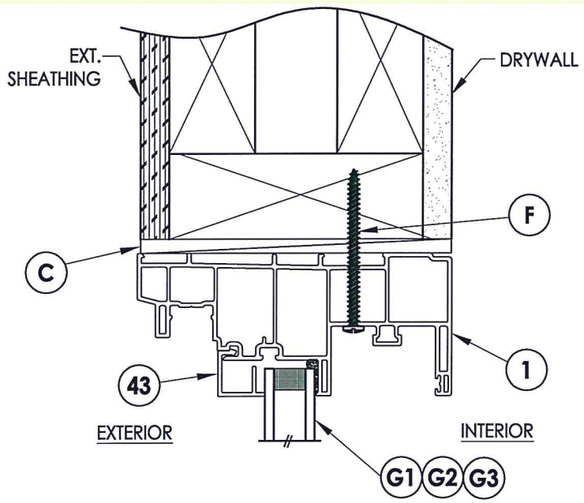
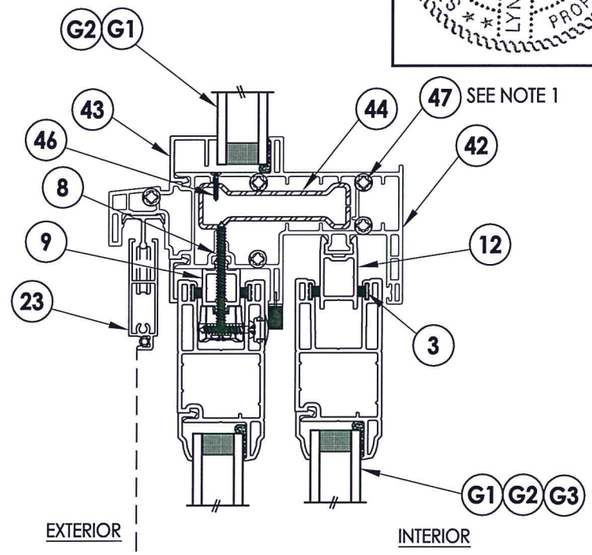
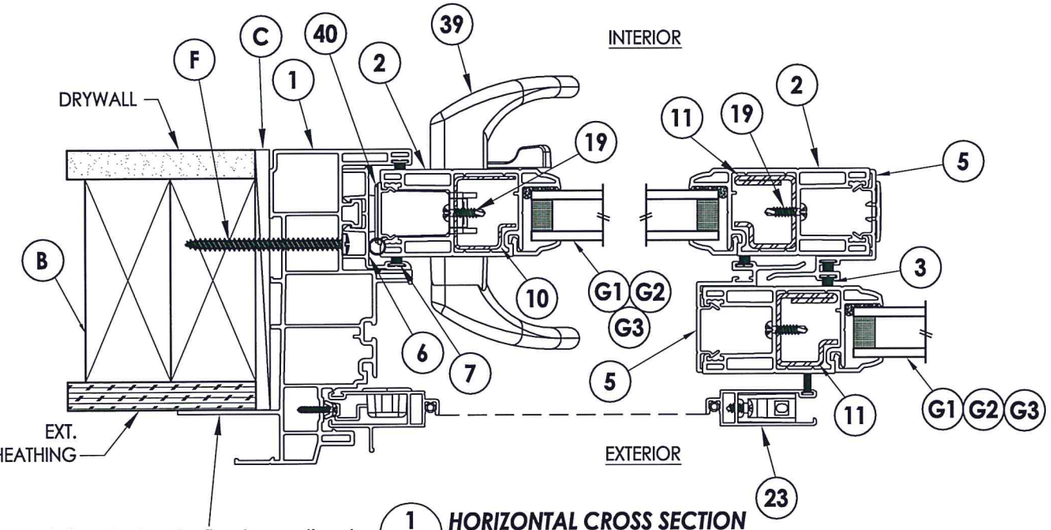



2/2 ***VERTICAL CROSS SECTION***

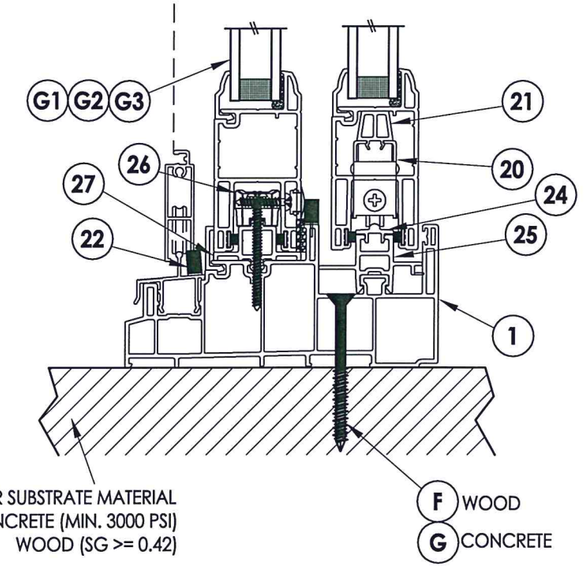
NOTES:
1. Attach Horizontal Transom Mullion Frame (Item #42) to Main Frame (Item #1) with (5) #10 x 2-1/2" screws (Item #47) at each end.




NOTE: Install sealant under fin when optional fin installation is used. Anchor through frame as shown - anchors not required through fin.

1/2 ***HORIZONTAL CROSS SECTION***




3/2 ***VERTICAL CROSS SECTION***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CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: *400/500 SERIES SLIDING PATIO DOORS*

PART OR ASSEMBLY: *HORIZONTAL & VERTICAL CROSS SECTIONS*

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

DATE: 9/4/14
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SHEET 2 OF 5

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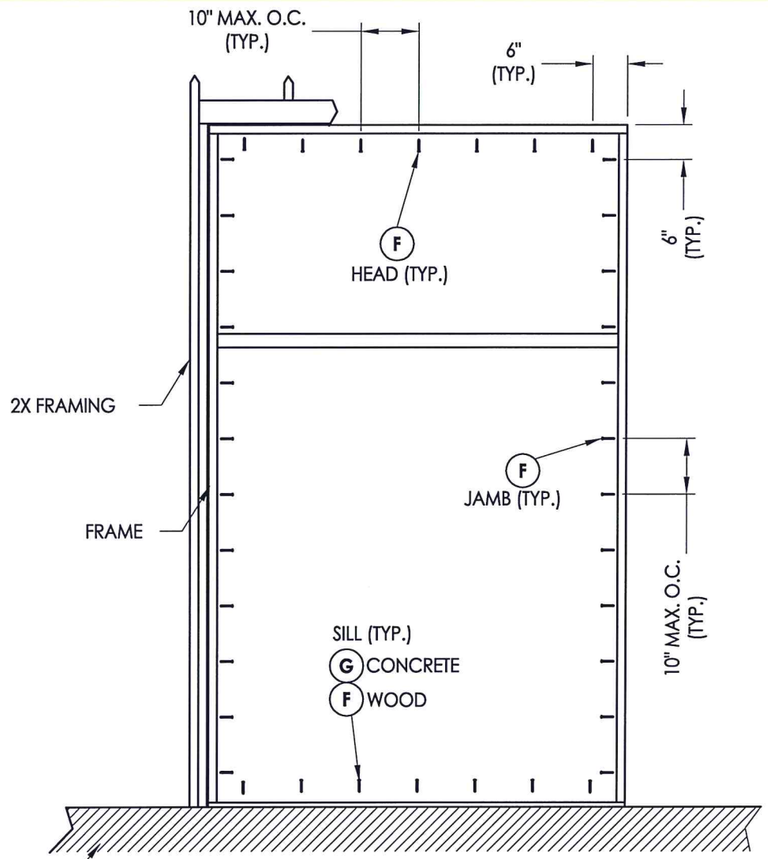


## FRAME ANCHORING

*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" | 1-3/4" | 1-1/2" | 4" |
| ELCO ULTRACON® | 1/4" | 1-3/4" | 2-1/2" | 3" |

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PRODUCT: *400/500 SERIES SLIDING PATIO DOORS*

PART OR ASSEMBLY: *FRAME ANCHORING*

| NO. | DATE | BY | REVISIONS |
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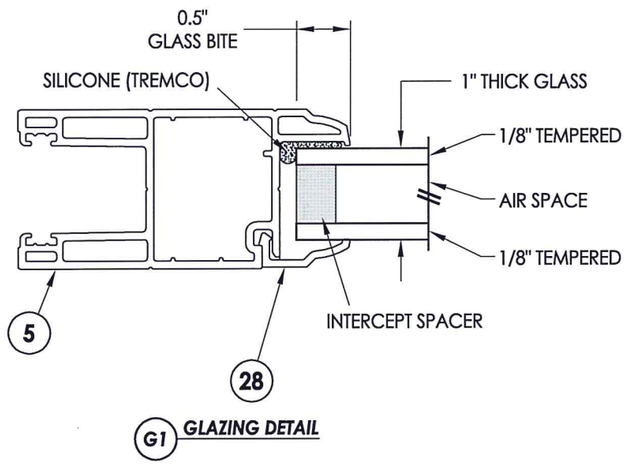
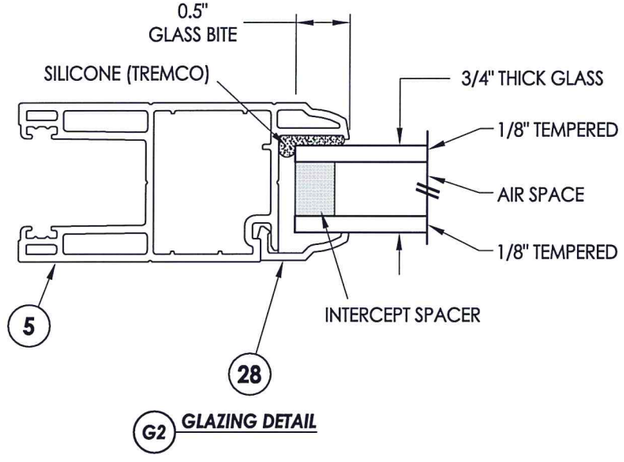
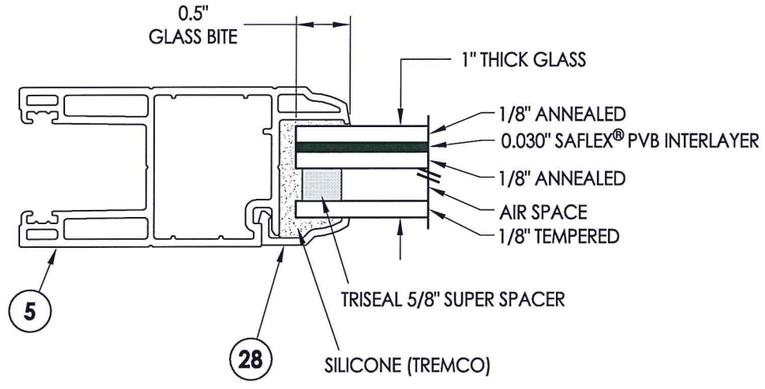



G1 **GLAZING DETAIL**




G2 **GLAZING DETAIL**




G3 **GLAZING DETAIL**

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PRODUCT: *400/500 SERIES SLIDING PATIO DOORS*

PART OR ASSEMBLY: *GLAZING DETAILS*

| NO. | DATE | BY |
|---|---|---|
| | REVISIONS | |

DATE: 9/4/14
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DRAWING NO.: TX-4469
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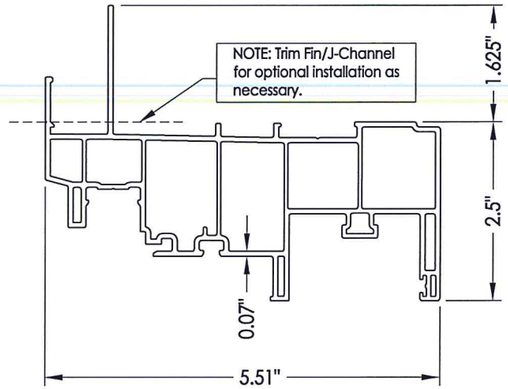
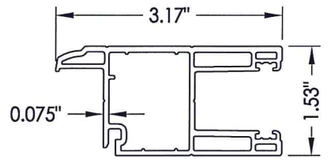
## BILL OF MATERIALS

| ITEM # | DESCRIPTION | MATERIAL |
|---|---|---|
| B | 2X FRAMING (SG >= 0.42) | WOOD |
| C | 1/4" MAX. SHIM SPACE | - |
| F | #10 PPH WOOD SCREW (1-3/8" MIN. EMBEDMENT REQ'D INTO WOOD) | STEEL |
| G | 1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT REQ'D. INTO CONCRETE) | STEEL |
| 1 | FRAME* | PVC |
| 2 | STILE/RAIL* | PVC |
| 3 | WEATHERSTRIP (SCHLEGEL #HF-7522-270) | - |
| 4 | GLAZING BEAD* | PVC |
| 5 | INTERLOCK* | PVC |
| 6 | JAMB TRACK* | PVC |
| 7 | WEATHERSTRIP (SCHLEGEL #PB-8420-187) | - |
| 8 | #8 X 2" PAN HEAD QUADREX SCREW | STEEL |
| 9 | FIXED SUPPORT PANEL* | PVC |
| 10 | STILE REINFORCEMENT | STEEL |
| 11 | STILE REINFORCEMENT | STEEL |
| 12 | HEAD TRACK* | PVC |
| 19 | #8 X 5/8" PAN HEAD, SQUARE, SELF-DRILLING SCREW | STEEL |
| 20 | TANDEM WHEEL (TRUTH) | - |
| 21 | TANDEM WHEEL SHIM* | PVC |
| 22 | INSECT STOP | - |
| 23 | SCREEN | - |
| 24 | SLIDING PANEL RAIL | ALUM |
| 25 | OPERATING PANEL SUPPORT* | PVC |
| 26 | FIXED SASH ANCHOR BLOCK | - |
| 27 | FIXED PANEL SUPPORT* | PVC |
| 39 | HANDLE KIT | STEEL |
| 40 | MORTISE LOCK KIT/KEEPER | S.S. |
| 42 | TRANSOM FRAME MULLION* | PVC |
| 43 | TRANSOM GLAZING BEAD* | PVC |
| 44 | TRANSOM MULLION REINFORCEMENT | STEEL |
| 46 | #7 X 1/2" FLAT HEAD SELF-DRILLING QUADREX SCREW | STEEL |
| 47 | #10 X 2-1/2" FLAT HEAD QUADREX WOOD SCREW | STEEL |

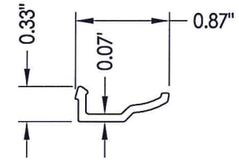
* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



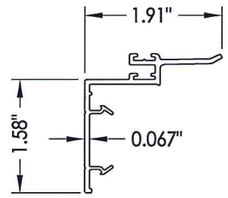
1 FRAME



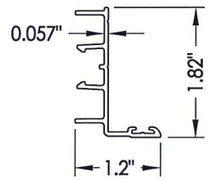
2 STILE/RAIL



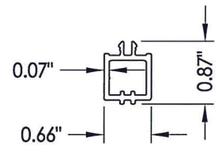
4 GLAZING BEAD



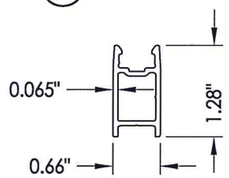
5 INTERLOCK



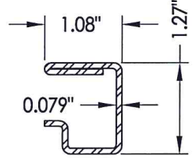
6 JAMB TRACK



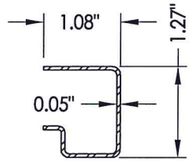
9 FIXED SUPPORT PANEL



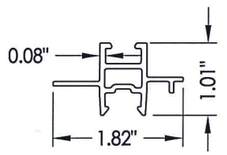
12 HEAD TRACK



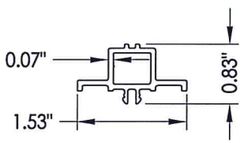
10 STILE REINFORCEMENT



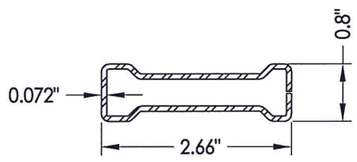
11 STILE REINFORCEMENT



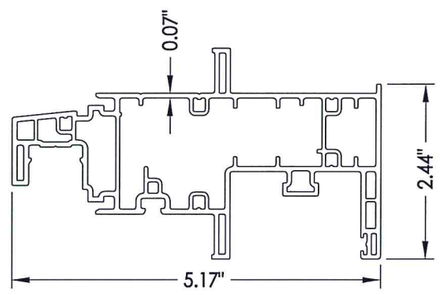
25 OPERATING PANEL SUPPORT



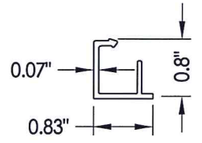
27 FIXED PANEL SUPPORT



44 TRANSOM MULLION REINFORCEMENT



42 TRANSOM FRAME MULLION



43 TRANSOM GLAZING BEAD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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852


PRODUCT: 400/500 SERIES SLIDING PATIO DOORS

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

| NO. | DATE | REVISIONS | BY |
|---|---|---|---|

DATE: 9/4/14
SCALE: N.T.S.
DWG. BY: JK
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SHEET 5 OF 5

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