



# R-650 SLIDING PATIO DOOR "NON-IMPACT"

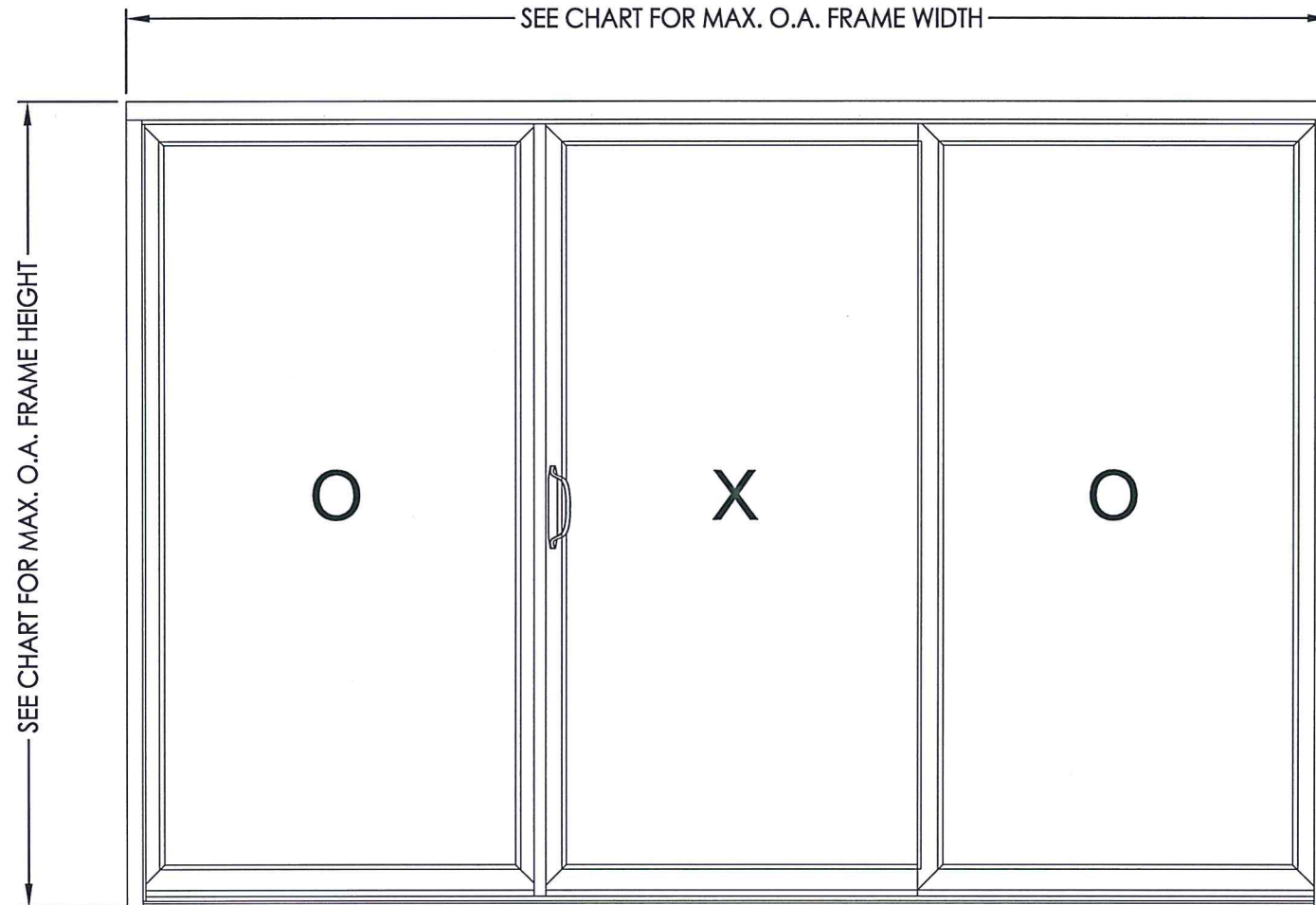
EVALUATED FOR USE IN THE STATE OF TEXAS

**TDI DR-1108**

The Novatech Sliding Patio Door described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 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.

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1	Typical elevations, design pressures and general notes
2	Horizontal cross sections
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4	Frame anchoring
5	Bill of materials, glazing details & components



MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
143.15" X 95.5"	42.6" x 86.77"	G1	+35.0	-35.0



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

PRODUCT: NOVATECH PATIO DOOR

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

NO.	DATE	UPDATE	CONCRETE ANCHOR	TYPE	LFS	BY
1	5/25/21					

REVISIONS

DATE: 3/05/20

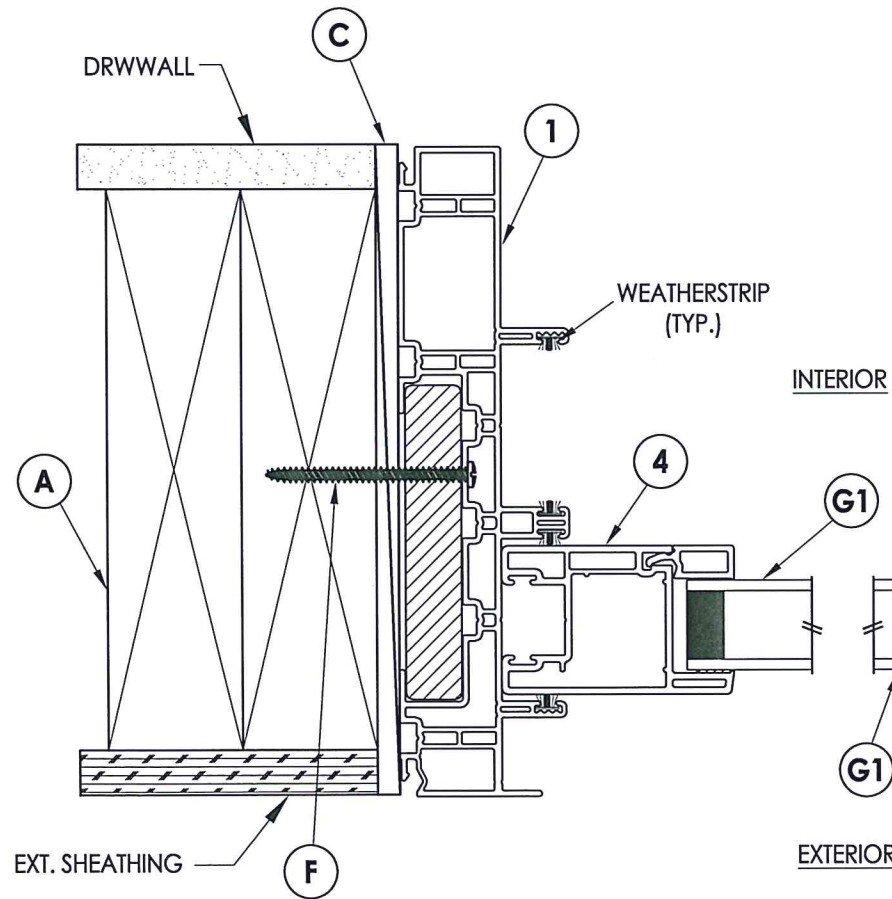
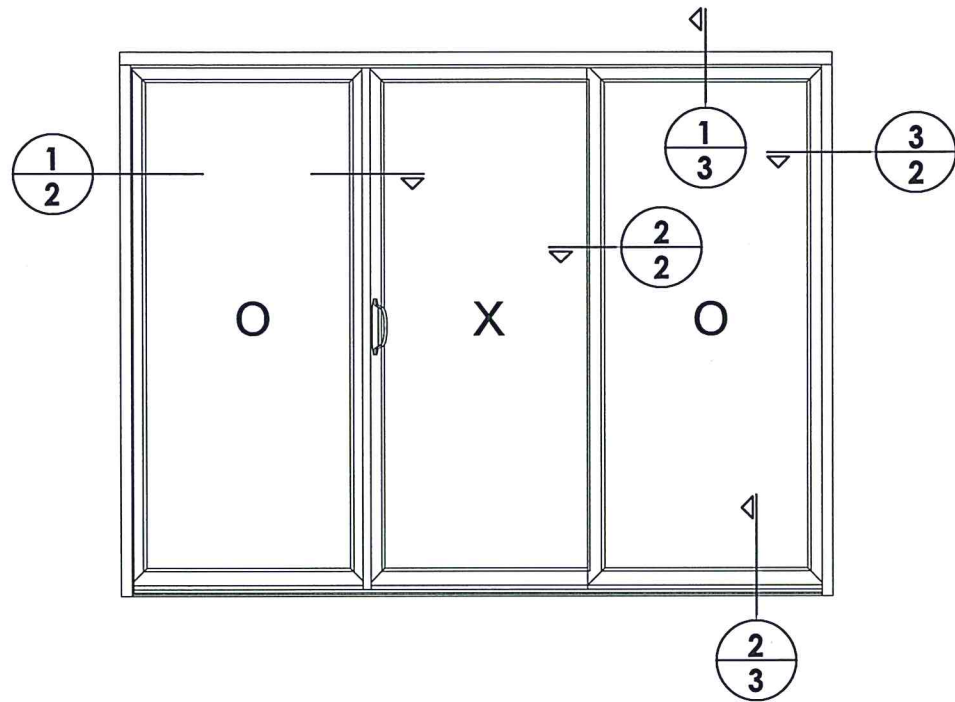
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DWG. BY: LFS

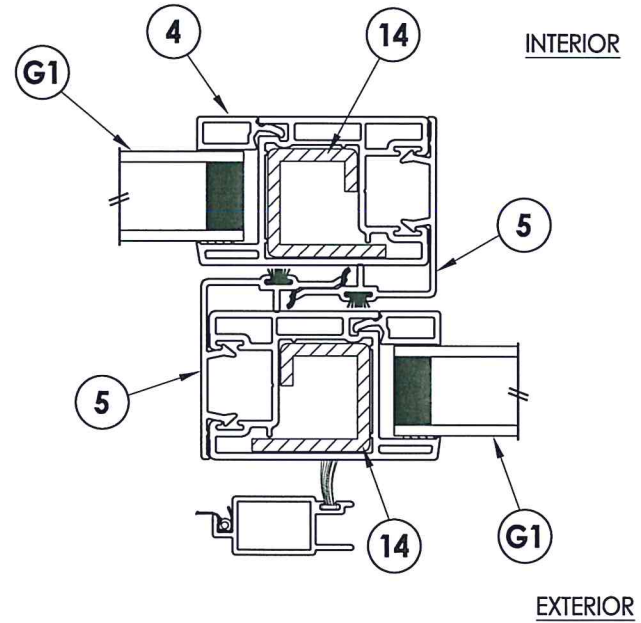
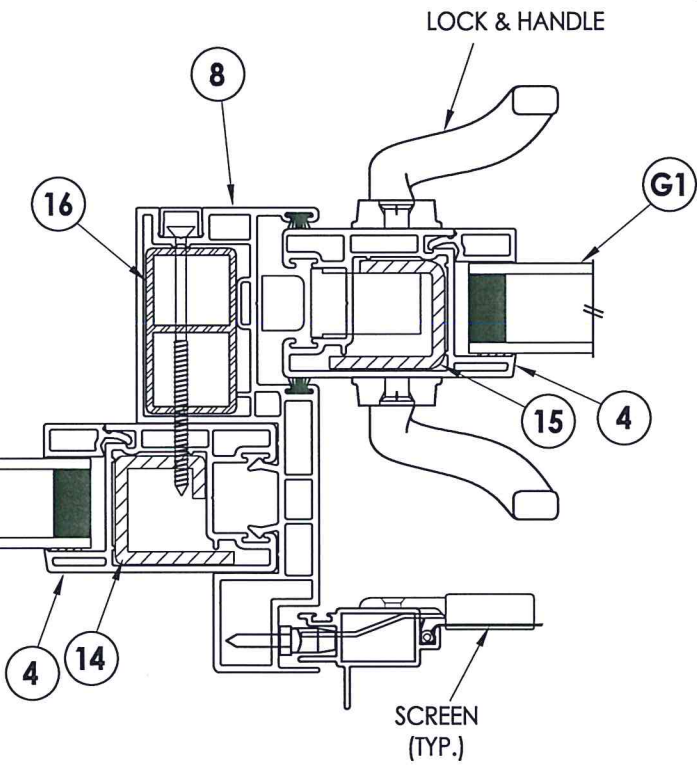
CHK. BY: RW

DRAWING NO.: TX-4991

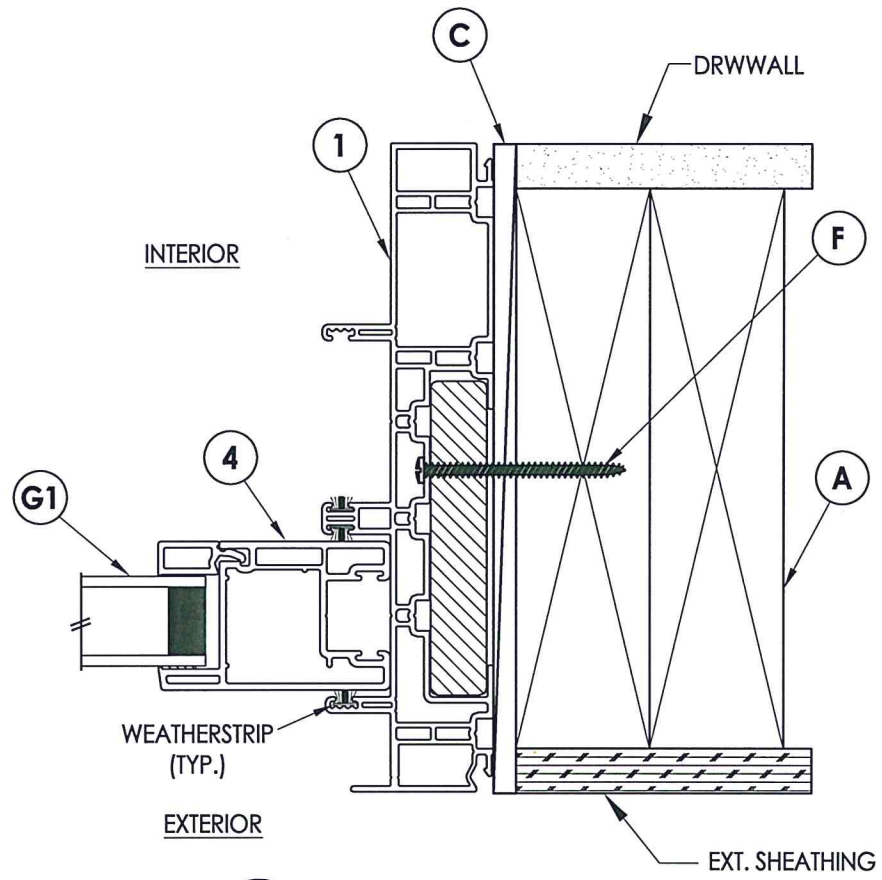
SHEET 1 OF 5



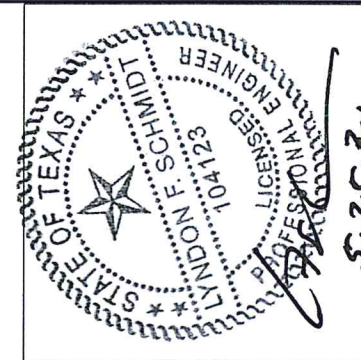
**1**  
**2** HORIZONTAL CROSS SECTION



**2**  
**2** HORIZONTAL CROSS SECTION



**3**  
**2** HORIZONTAL CROSS SECTION



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PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	UPDATE	CONCRETE ANCHOR	TYPE	LFS	BY
1	5/25/21					

DATE: 3/05/20

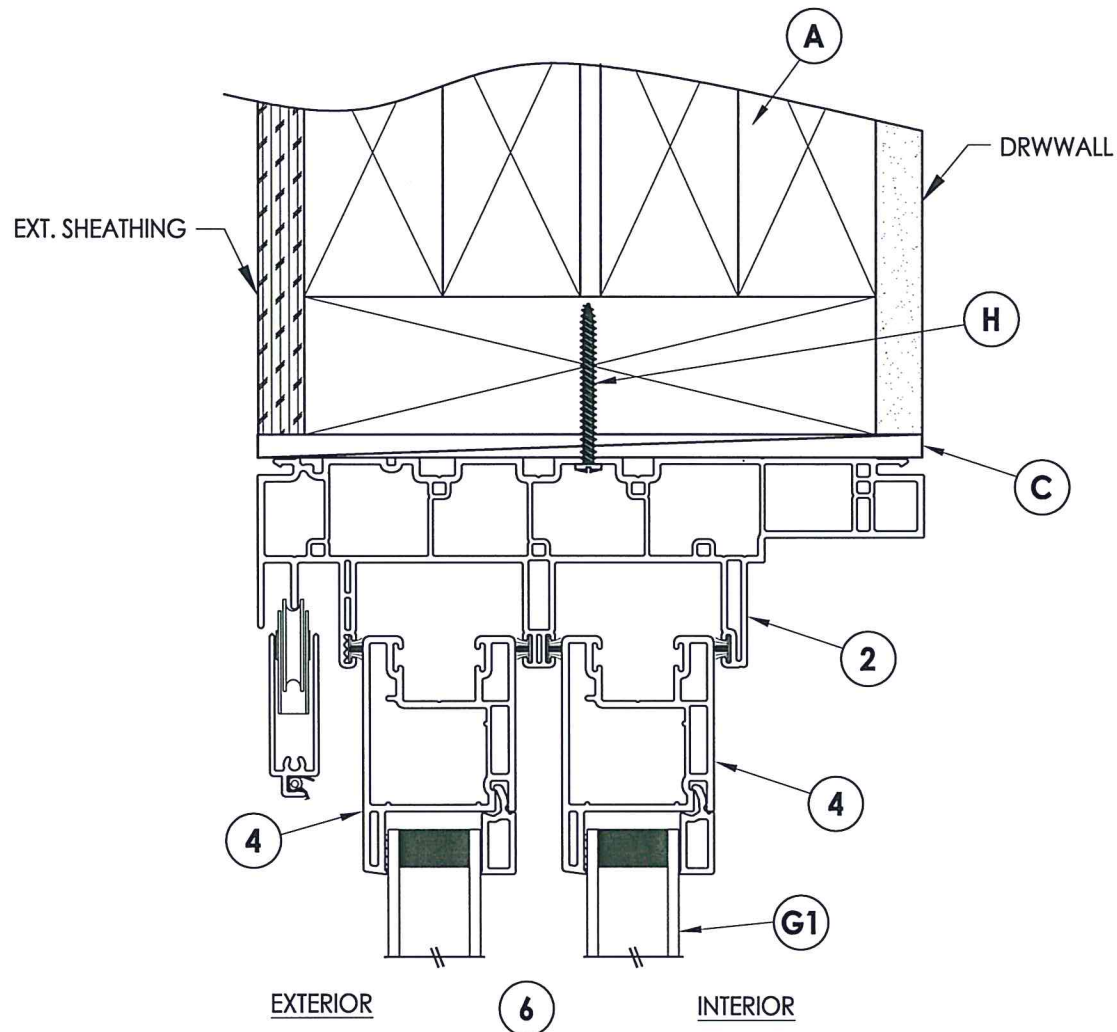
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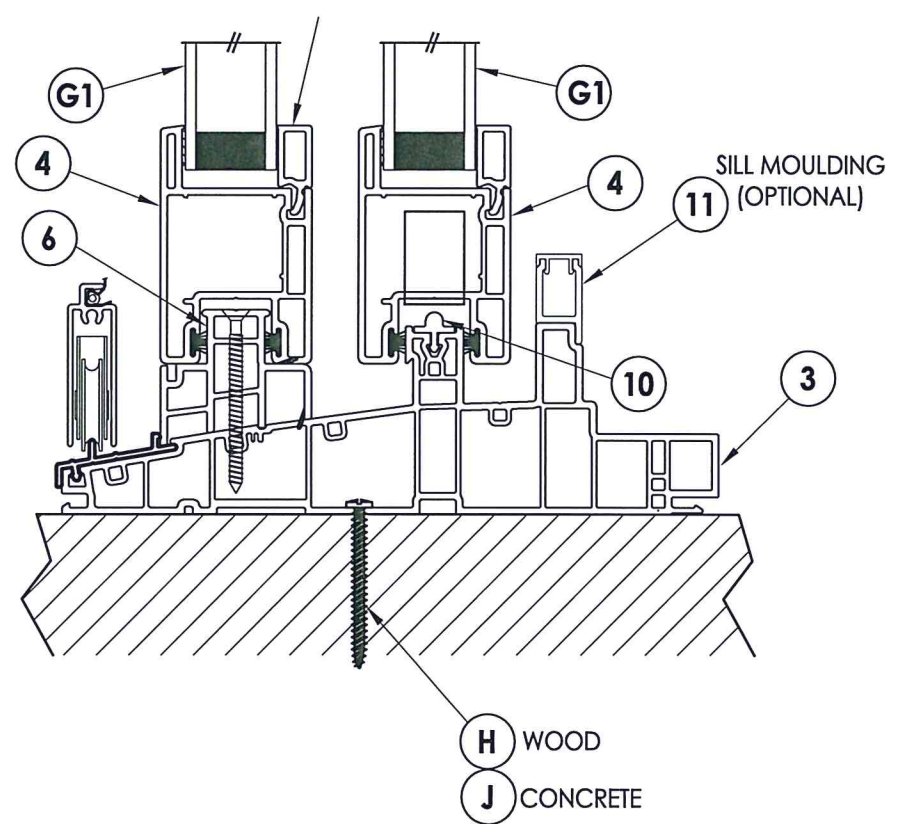
CHK. BY: RW

DRAWING NO.: TX-4991

SHEET 2 OF 5



**1**  
**3** VERTICAL CROSS SECTION



**2**  
**3** VERTICAL CROSS SECTION



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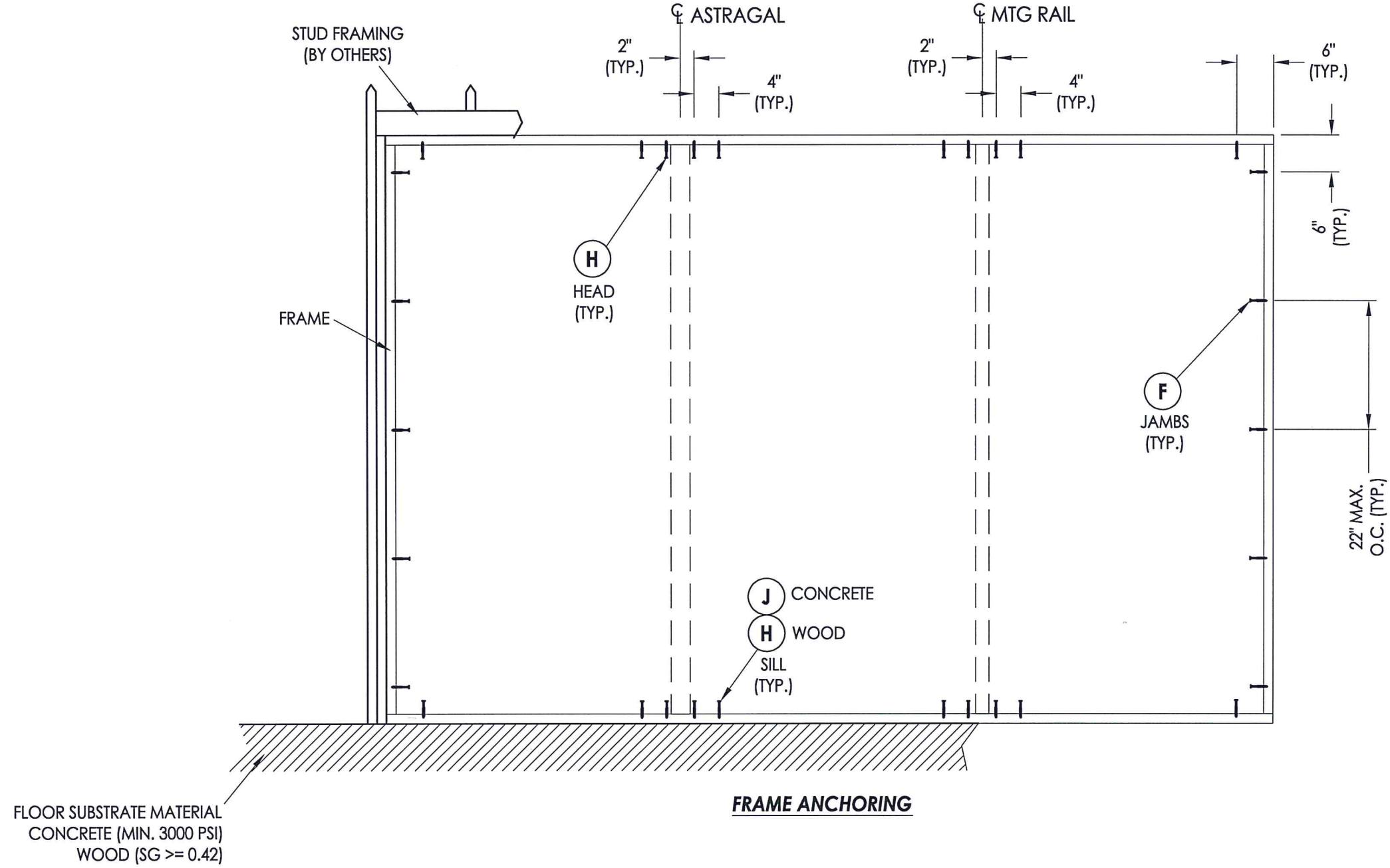
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: NOVATECH PATIO DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	5/25/21	UPDATE CONCRETE ANCHOR TYPE	LFS

DATE: 3/05/20  
SCALE: N.T.S.  
DWG. BY: LFS  
CHK. BY: RW  
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SHEET 3 OF 5



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PRODUCT: NOVATECH PATIO DOOR

PART OR ASSEMBLY: BUCK ANCHORING

NO.	DATE	UPDATE	CONCRETE ANCHOR TYPE	LFS	BY
1	5/25/21				

DATE: 3/05/20

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: TX-4991

SHEET 4 of 5

**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"
DeWALT ULTRACON®+	1/4"	1-3/4"	1"	4"

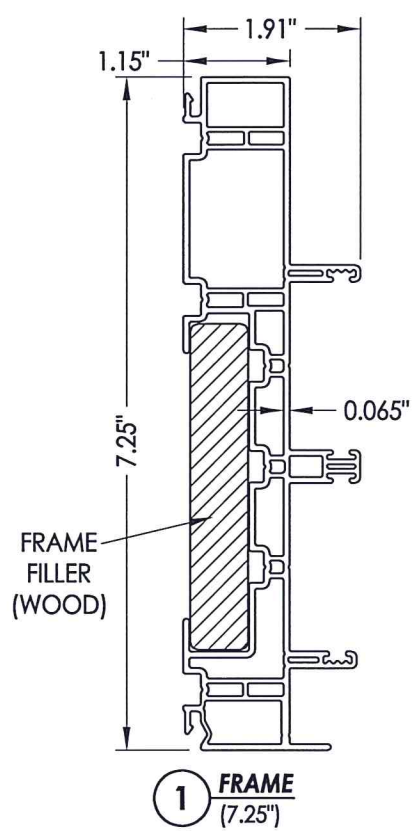
**WOOD SCREW INSTALLATION NOTES:**

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

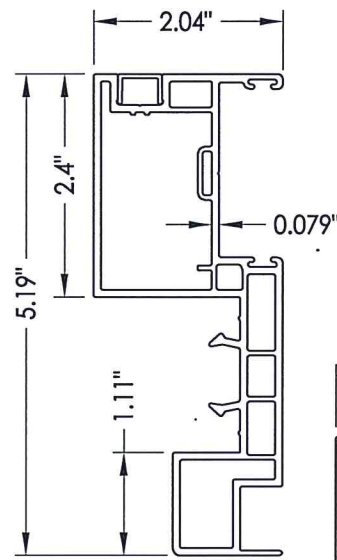
**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#8 X 2-1/2" PPH SMS (1-1/8" MIN. EMBEDMENT)	STEEL
H	#8 X 1-3/4" PPH SMS (1-3/8" MIN. EMBEDMENT)	STEEL
J	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
1	FRAME (7.25)*	PVC
2	HEAD (7.25)*	PVC
3	SILL (7.19)*	PVC
4	SASH*	PVC
5	MEETING STILE INTERLOCK*	PVC
6	FIXED SASH SUPPORT*	PVC
8	ASTRAGAL*	PVC
9	GLAZING BEAD*	PVC
10	ALUMINUM RAIL	ALUM
11	SILL MOULDING*	PVC
14	REINFORCEMENT (MEETING STILE)	STEEL
15	REINFORCEMENT (HANDLE)	STEEL
16	REINFORCEMENT (ASTRAGAL)	ALUM

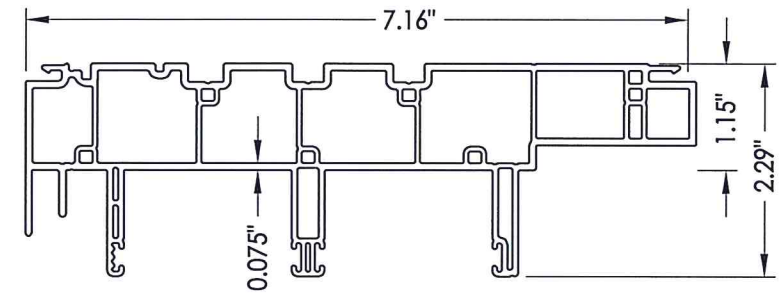
\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "CERTIFICATIONS PROGRAMS FOR RIGID PVC EXTRUSIONS".



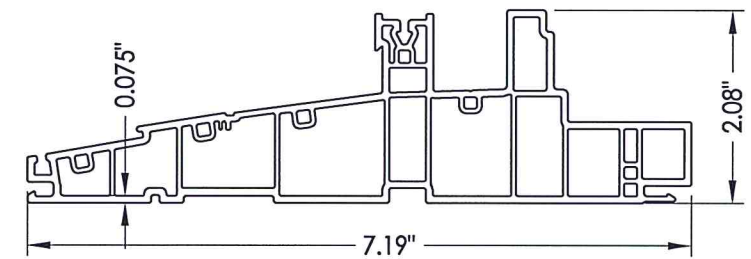
**1** FRAME (7.25")



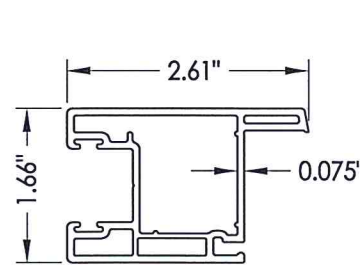
**8** ASTRAGAL OXO



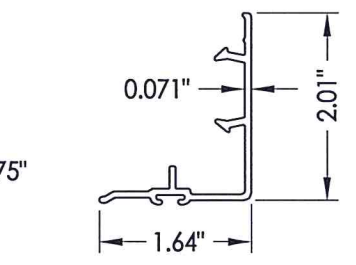
**2** HEAD (7.25")



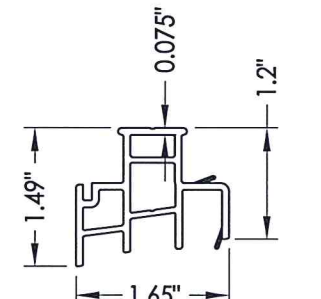
**3** SILL (7.19")



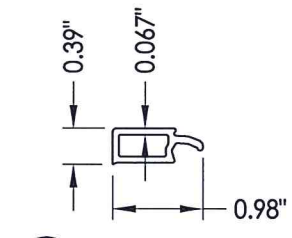
**4** SASH



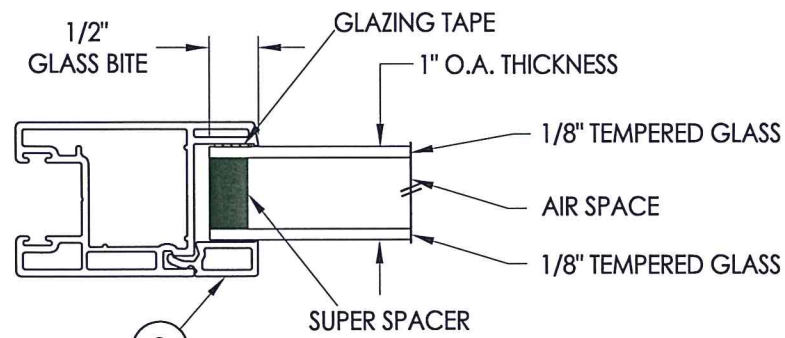
**5** MEETING STILE INTERLOCK



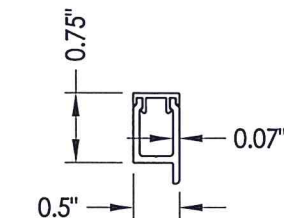
**6** FIXED SASH SUPPORT



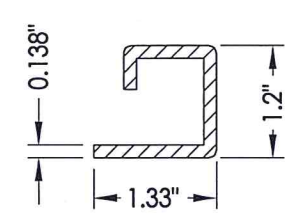
**9** GLAZING BEAD



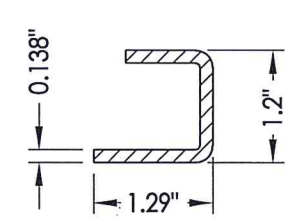
**G1** GLAZING DETAIL



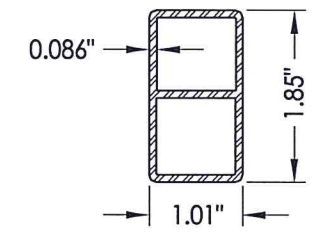
**11** SILL MOULDING w/ FILLER



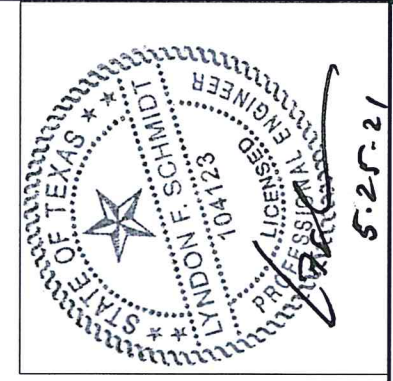
**14** REINFORCEMENT MEETING STILE



**15** REINFORCEMENT HANDLE



**16** REINFORCEMENT ASTRAGAL



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DWG. BY: LFS  
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DRAWING NO.: TX-4991  
SHEET 5 OF 5