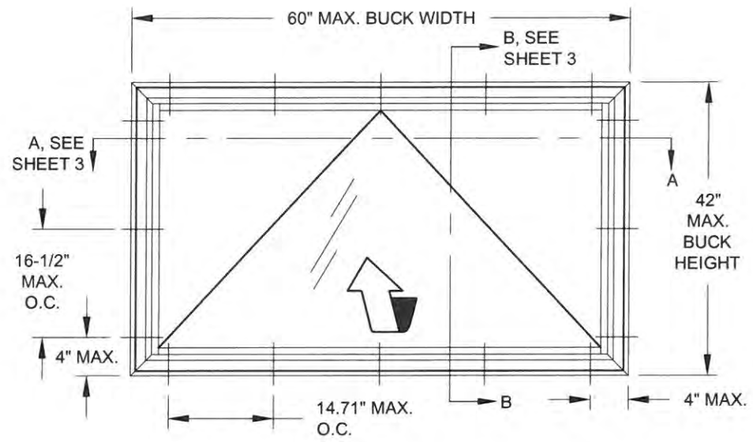
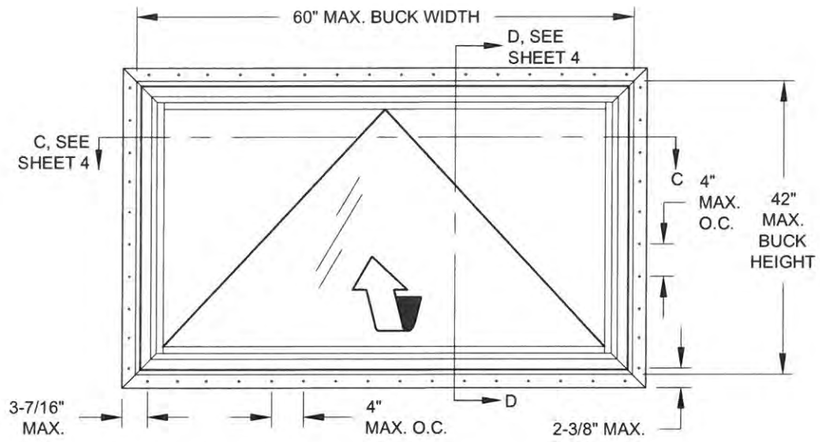


ELEVATION FOR TYP. EQUAL LEG/BOX & FLANGE FRAME



ELEVATION FOR TYP. FIN & J-CHANNEL FRAME

GENERAL NOTES: SERIES 5540 IMPACT RESISTANT, VINYL AWNING WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE FOR THE DESIGN PRESSURES LISTED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).

3) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

4) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

5) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE 2006 TEXAS REVISIONS TO THE 2006 INTERNATIONAL BUILDING CODE.

TABLE 1:

Window Buck Size		Design Pressure		Certification
Width	Height	(+) psf	(-) psf	(CAR) Number
60"	42"	50	50	190-502, 1065
52.125"	42"	65	70	190-503, 1066

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Title	VINYL AWNING WINDOW TDI (IMP.-RESIST.)				Date	3/20/15	
Desc.	GENERAL NOTES & ELEVATIONS			Drawn By	J ROSOWSKI		
Rev 1					Rev 1 Date		
Rev 2					Rev 2 Date		
Series	AW-5540	Scale	NTS	Sheet	1 OF 4	DWG No.	TDI-AW5540.1	Rev. No.	

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ANTHONY LYNN MILLER
106954
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PROFESSIONAL ENGINEER

3/20/15

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TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) **Max. DP of 50.0**	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.050"
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.063"
3/16" Ultracon (steel) **Max. DP of 50.0**	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
1/4" Ultracon (steel)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
1/4" Crete-Flex (410 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
1/4" Aggre-Gator (18-8 S.S.)	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2"	1-1/4"

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

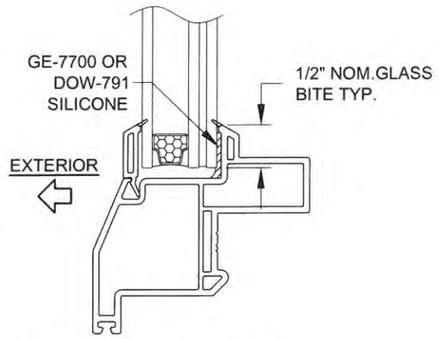
Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .131" Common Nail **Max. DP of 50 psf**	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .131" Ring-shank Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	3/4"	1-3/8"
	Aluminum, 6063-T5	3/8"	0.050"
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	Steel, A36	3/8"	0.050"

ANCHOR NOTES:

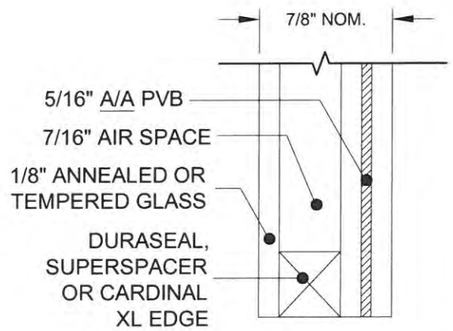
1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

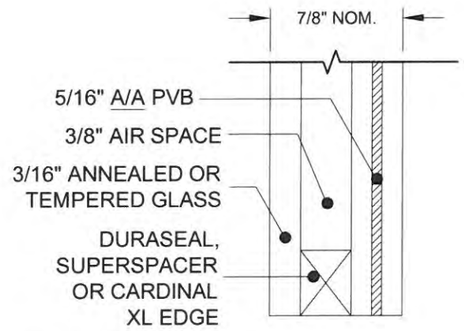
2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.

3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.



TYP. GLAZING DETAIL





GLAZING TYPES

PVB INTERLAYER MANUFACTURED BY DUPONT INC. (AKA KURARAY AMERICA, INC.)

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Title	VINYL AWNING WINDOW TDI (IMP.-RESIST.)			Date	3/20/15
Desc.	GLASS/ANCHOR OPTIONS			Drawn By	J ROSOWSKI
Rev 1				Rev 1 Date	
Rev 2				Rev 2 Date	
Series	AW-5540	Scale	NTS	Sheet	2 OF 4
DWG No.	TDI-AW5540.1	Rev. No.			

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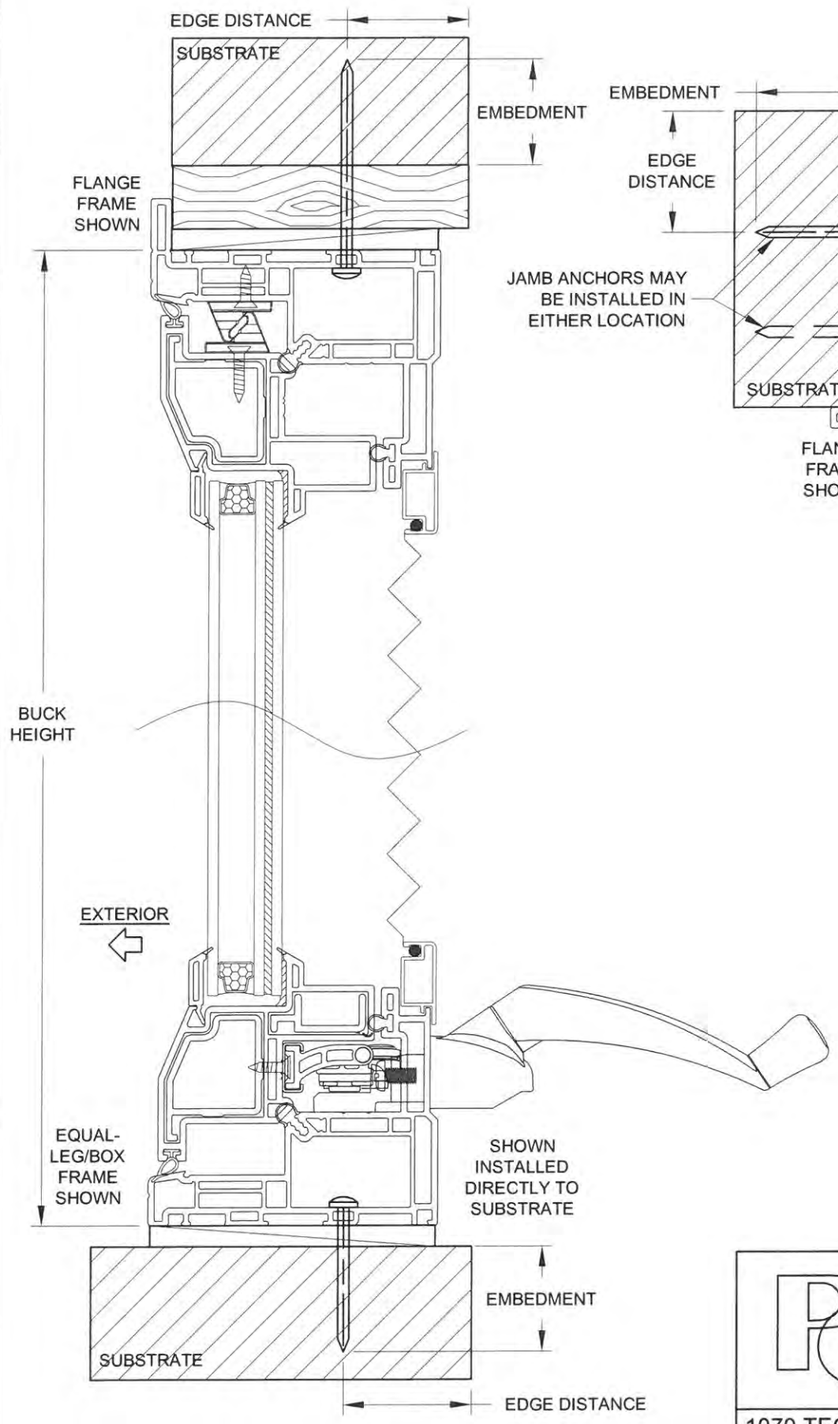
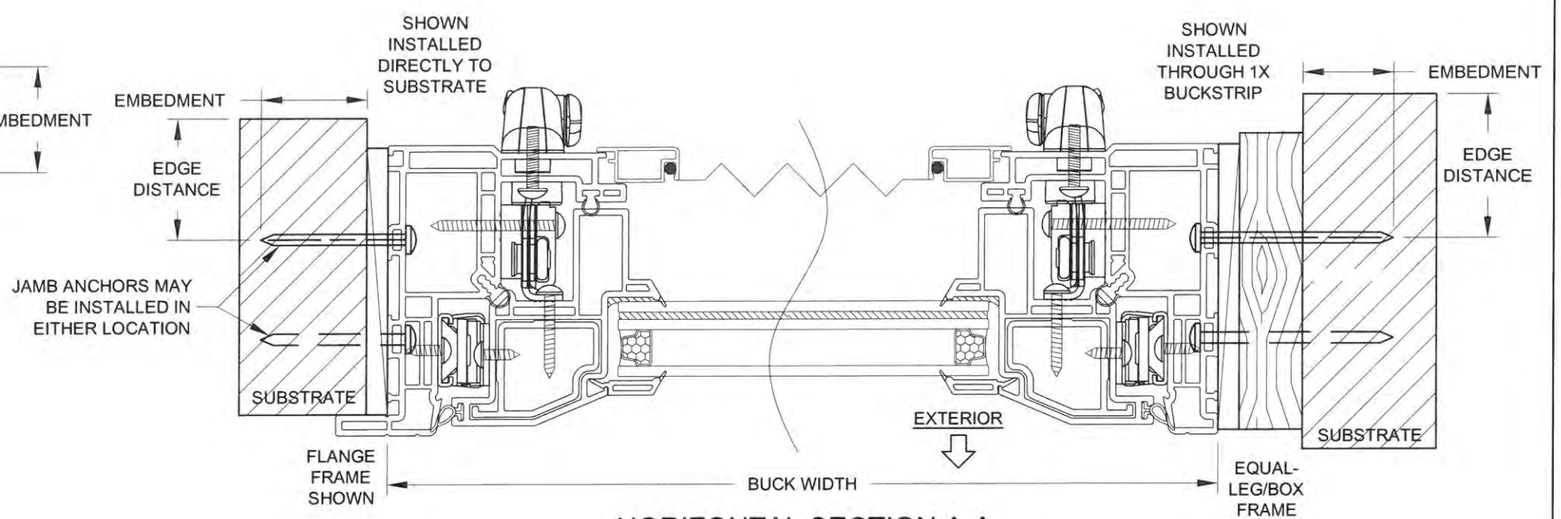
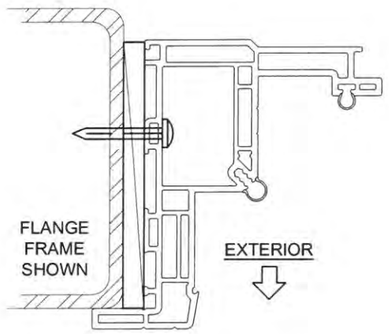


VERTICAL SECTION B-B



HORIZONTAL SECTION A-A



INSTALLATION THROUGH THE FRAME, INTO METAL

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
3) MAX. SHIM THICKNESS TO BE 1/4".
4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

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Title	VINYL AWNING WINDOW TDI (IMP.-RESIST.)			Date	3/20/15
Desc.	FLANGE & EQUAL-LEG/BOX FRAMES			Drawn By	J ROSOWSKI
Rev 1				Rev 1 Date	
Rev 2				Rev 2 Date	
Series	AW-5540	Scale	NTS	Sheet	3 OF 4
DWG No.	TDI-AW5540.1	Rev. No.			

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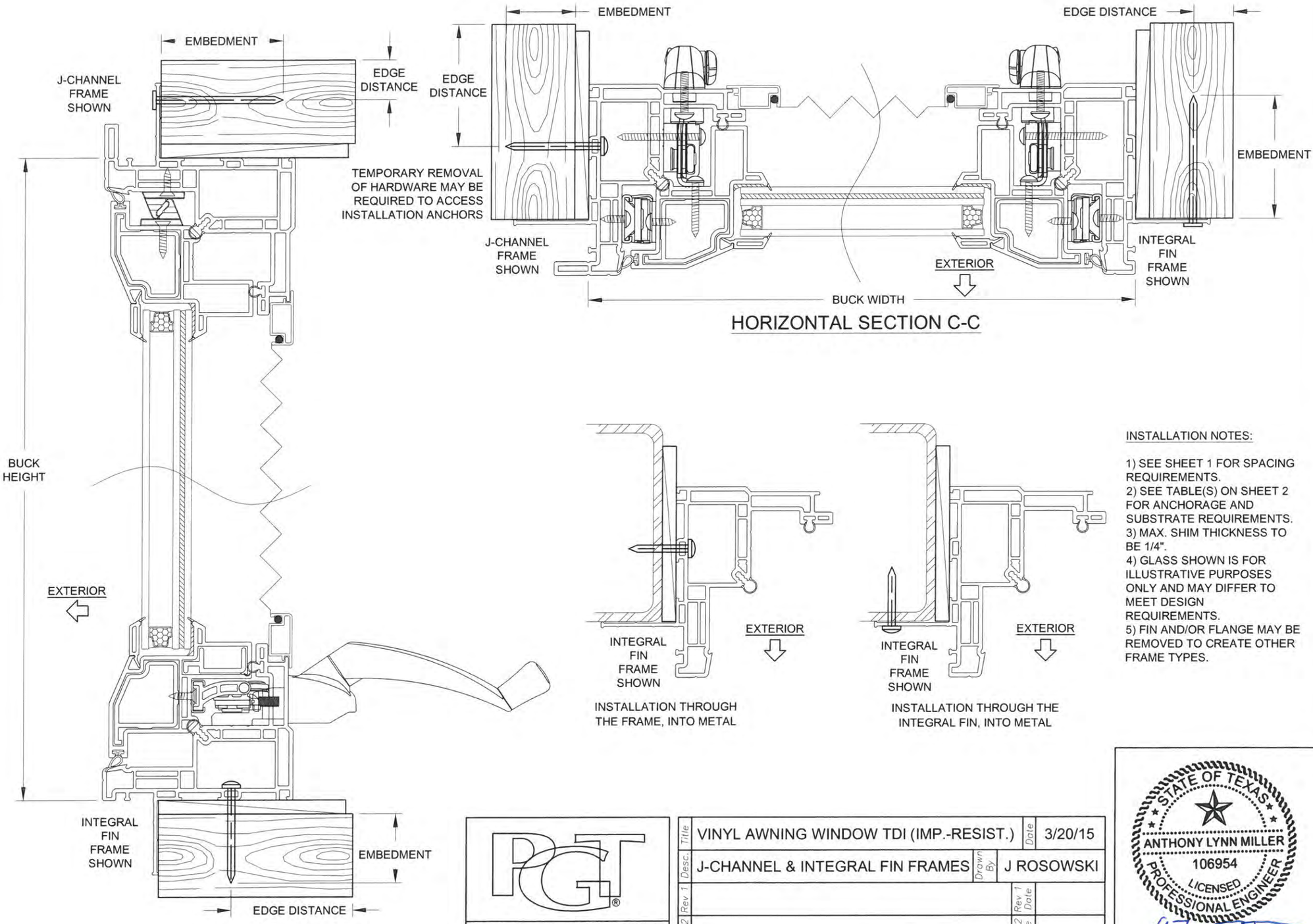

HORIZONTAL SECTION C-C

VERTICAL SECTION D-D

INSTALLATION THROUGH THE FRAME, INTO METAL

INSTALLATION THROUGH THE INTEGRAL FIN, INTO METAL

INSTALLATION NOTES:

1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
3) MAX. SHIM THICKNESS TO BE 1/4".
4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

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Title	VINYL AWNING WINDOW TDI (IMP.-RESIST.)					Date	3/20/15
Desc.	J-CHANNEL & INTEGRAL FIN FRAMES				Drawn By		J ROSOWSKI
Rev 1					Rev 1 Date		
Rev 2					Rev 2 Date		
Series	AW-5540	Scale	NTS	Sheet	4 OF 4	DWG No.	TDI-AW5540.1

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