



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #

FL331-R22

Application Type

Revision

Code Version

2023

Application Status

Approved

Comments

Archived



Product Manufacturer

PGT Industries

Address/Phone/Email

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Technical Representative

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Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

A. Lynn Miller, P.E.

Florida License

PE-58705

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

12/31/2032

Validated By

Steven M. Urich, PE

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL331_R22_COI_Cert of Independence.pdf](#)

Referenced Standard and Year (of Standard)

Standard

Year

AAMA 450

2010

AAMA/WDMA/CSA 101/I.S.2/A440

2008

ASTM E-1886

2013

ASTM E-1996

2012

TAS 201, 202, 203

1994

Equivalence of Product Standards
Certified By

Florida Licensed Professional Engineer or Architect

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

05/01/2024

Date Validated

05/01/2024

Date Pending FBC Approval

05/02/2024

Date Approved

06/18/2024

Summary of Products

FL #	Model, Number or Name	Description
331.1	CD-290	Aluminum Hinged Cabana Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL331 R22 II CD290 NI Rev C.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331 R22 AE Eng Eval - CD290 - REV C.pdf Created by Independent Third Party: No
331.2	FD-5455	Vinyl French Door & Sidelite/Transom
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL331 R22 II FD5455FPA-NI - REV E.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331 R22 AE Eng Eval - FD5455 - REV E.pdf Created by Independent Third Party: No
331.3	FD-5555	Vinyl French Door & Sidelite/Transom
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL331 R22 II FD5555FPA-LM - REV D.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331 R22 AE Eng Eval - FD5555 - REV D1.pdf Created by Independent Third Party: No
331.4	SE-3550	Aluminum, Impact Resistant Storefront Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL331 R22 II SE3550PGT.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL331 R22 AE SE3550PGT Eng Eval.pdf Created by Independent Third Party: No

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Product Approval Accepts:



SERIES FD5455, NON-IMPACT-RESISTANT, VINYL, REINFORCED, OUTSWING
FRENCH DOOR & SIDELITE/TRANSOM (SL/TR)

FLORIDA PRODUCT APPROVAL #331

IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

DESIGN PRESSURE RATING
VARIES, SEE SHEETS 4 & 5

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.
- 4) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, THIS SHEET. 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 OR ARCHITECT OF RECORD.
- 5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) (MAX. 1/4" SHIM SPACE FOR GROUT) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.
- 6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 1, THIS SHEET. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME. EXTERIOR 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.
- 7) 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 DOOR, SIDELITE OR TRANSOM.
- 8) DESIGN PRESSURES:
- A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
- 8) 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 THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 9) ALL RIGID AND CELLULAR PVC MANUFACTURED BY ENERGI FENESTRATION SOLUTIONS USA, INC. OR VISION EXTRUSION, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS.
- 10)SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.
- 11)REFERENCES: TEST REPORTS FTL-7401, 7416 & 7417.

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	3/16" Ultracon+	Concrete (min. 3 ksi)	1-1/8"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
B	#10 Steel SMS (G5) #10 410 S.S. SMS #10 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	5/16"	0.063"
		Steel, A36*	5/16"	0.063"
		Steel Stud, A653 Gr. 33*	5/16"	0.063"
	3/16" Ultracon+	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	1-1/8"	1-3/4"
	1/4" Ultracon+	Ungrouted CMU, (ASTM C-90)	1-1/16"	1-1/4"
C	#12 Steel SMS (G5) #12 410 S.S. SMS #12 18-8 S.S. SMS	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.071"
		Steel, A36*	3/8"	0.071"
		Steel Stud, A653 Gr. 33*	3/8"	0.071" (14 Ga)
	1/4" Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU, (ASTM C-90)	1-1/8"	1-3/4"
		Concrete (min. 3 ksi)	1-1/4"	1-3/8"
	1/4" 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" 18-8 S.S. Aggre-Gator	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3.27 ksi)	1-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	4"	1-1/4"
D	1/4" Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/8"
	1/4" 410 S.S. CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
- 2) UNGROUTED CMU VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 3) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

TABLE 2:

Glass Type	Description
1	7/8" IG (1/8" TP Cap - Airspace - 1/8" TP)
2	7/8" IG (3/16" TP Cap - Airspace - 3/16" TP)
3	1-3/16" LIG (1/8" TP Cap - Airspace - 1/8" AN - .090" PVB - 1/8" AN)
4	1-3/16" LIG (3/16" TP Cap - Airspace - 1/8" AN - .090" PVB - 1/8" AN)
5	1-3/16" LIG (1/8" TP Cap - Airspace - 3/16" AN - .090" PVB - 3/16" AN)

PVB = KURARAY TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.
AN = ANNEALED
TP = TEMPERED

TABLE A:

Product	Size	DP	Product Rating
Mullion	96"	+/-70 psf	DP +/-70
Door	38-3/4" x 96" (X) 76" x 96" (XX)	+/-70 psf	R-PG70
Sidelite or Transom	40" x 111" 111" x 40"	+/-70 psf	R-PG70

GUIDE TO SHEETS:

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Revision:

E) REMOVE 1/4" & 3/16" ULTRACON

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

06/12/11

A. MORLESIN

FD5455FFPA-NI

E

PGI
Custom Windows and Doors
1070 TECHNOLOGY DRIVE
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VINYL FRENCH DOOR (NI)

GENERAL NOTES.

FD5455

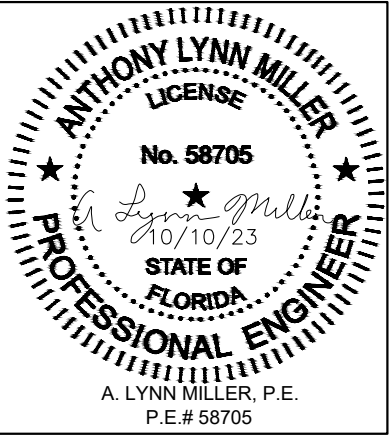
1 OF 11

Sheet

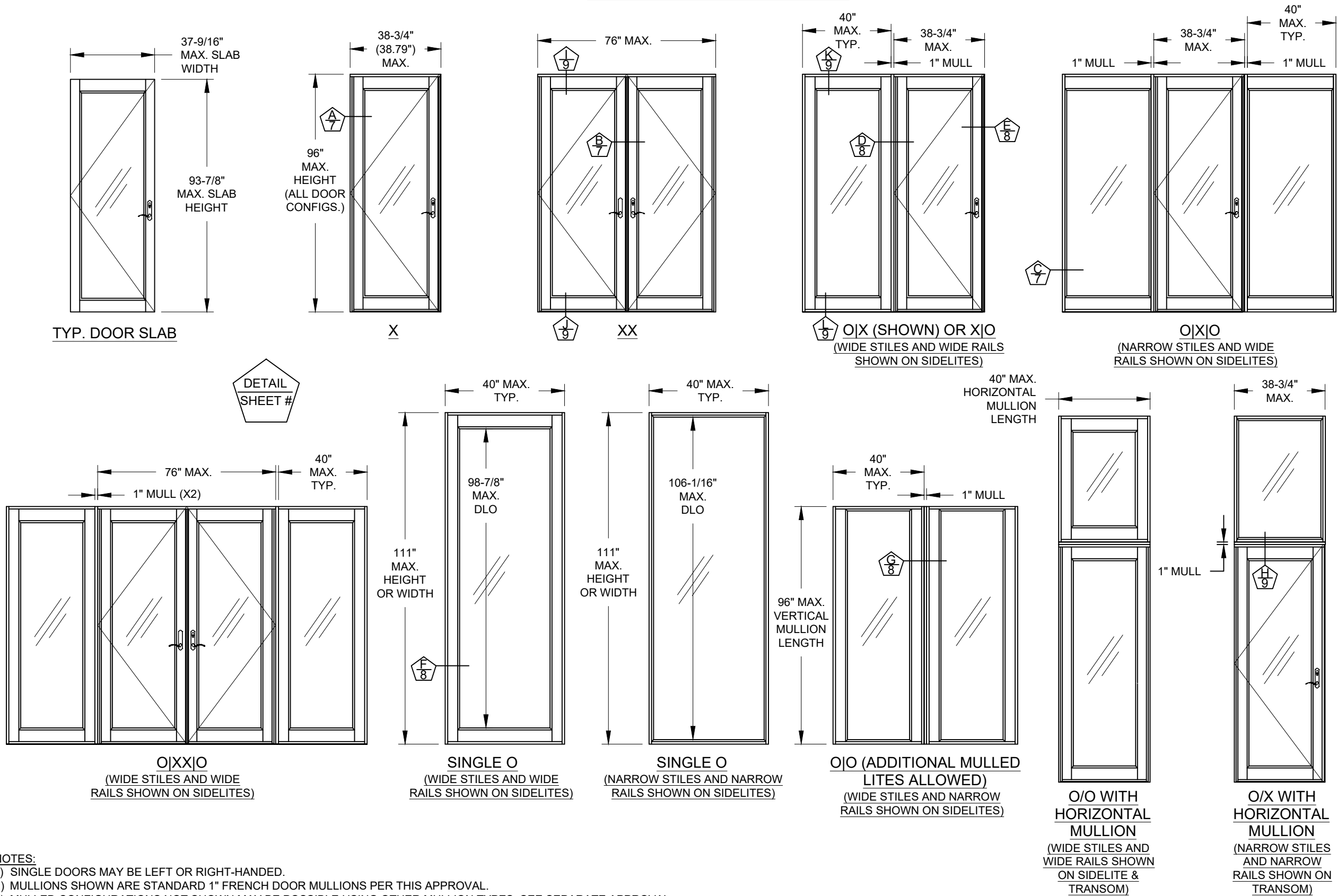
Series

Desc.

Title



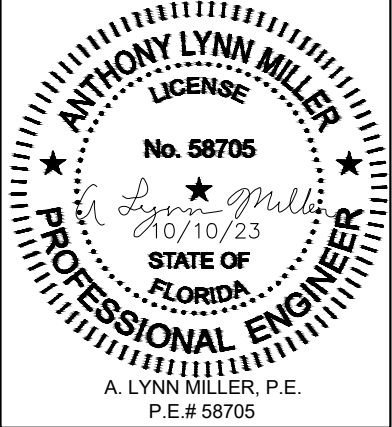
EXAMPLE CONFIGURATIONS

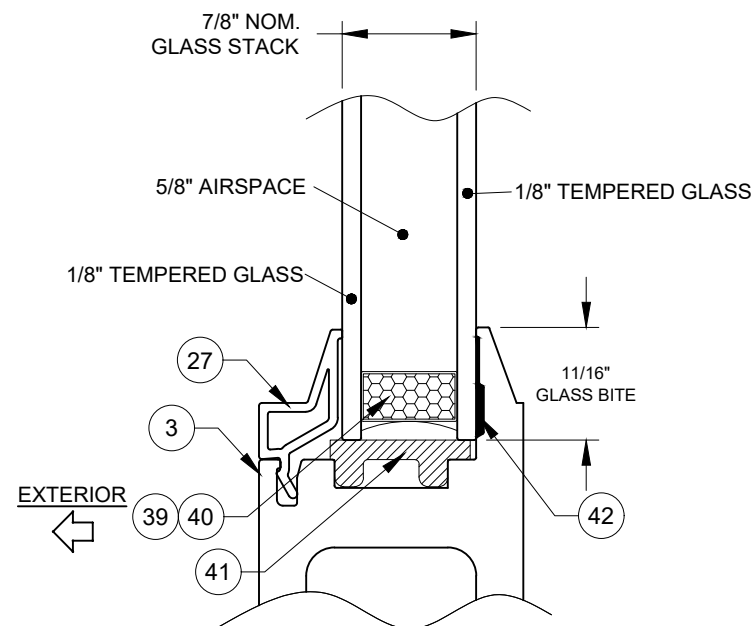


- NOTES:
- 1) SINGLE DOORS MAY BE LEFT OR RIGHT-HANDED.
 - 2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS PER THIS APPROVAL.
 - 3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE APPROVAL.
 - 4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
 - 5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SLT/TR OR MULLED ASSEMBLY.
 - 6) ADDITIONAL CONFIGURATIONS USING THE 1" FRENCH DOOR MULLION ARE POSSIBLE. USE THE ABOVE DRAWINGS AS A REFERENCE FOR SIZE LIMITATIONS.

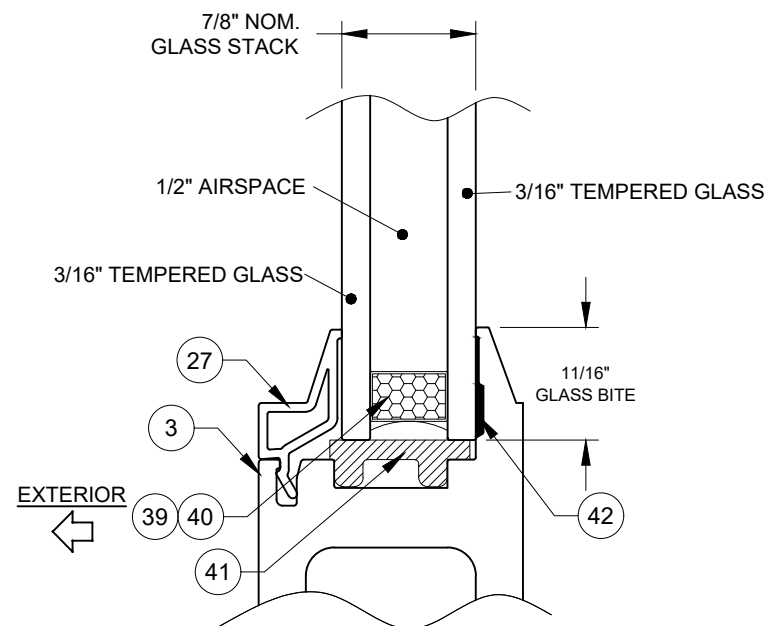
Revision: E) NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296							
		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600									
Series		FD5455		2 OF 11		Dwg No.		FD5455FPA-NI		Rev.	
Desc.		VINYL FRENCH DOOR (NI)		EXAMPLES CONFIGURATIONS.		By		A. MORLESIN		Date	
Title										06/12/11	

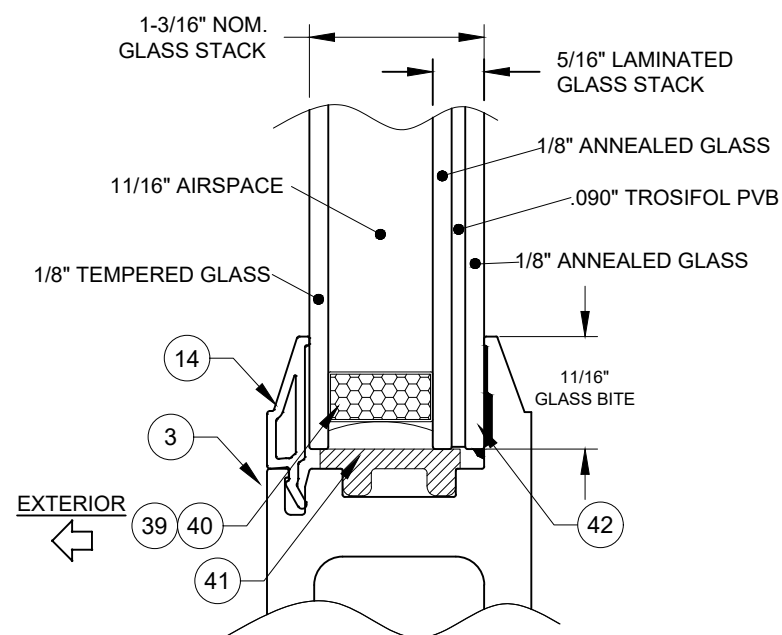




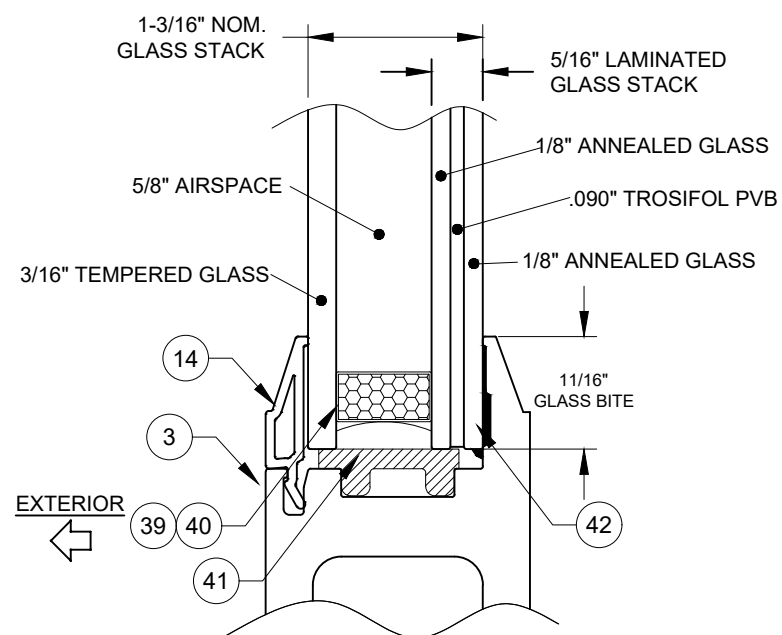
GLASS TYPE 1
USED IN DOOR,
SIDELITE, TRANSOM



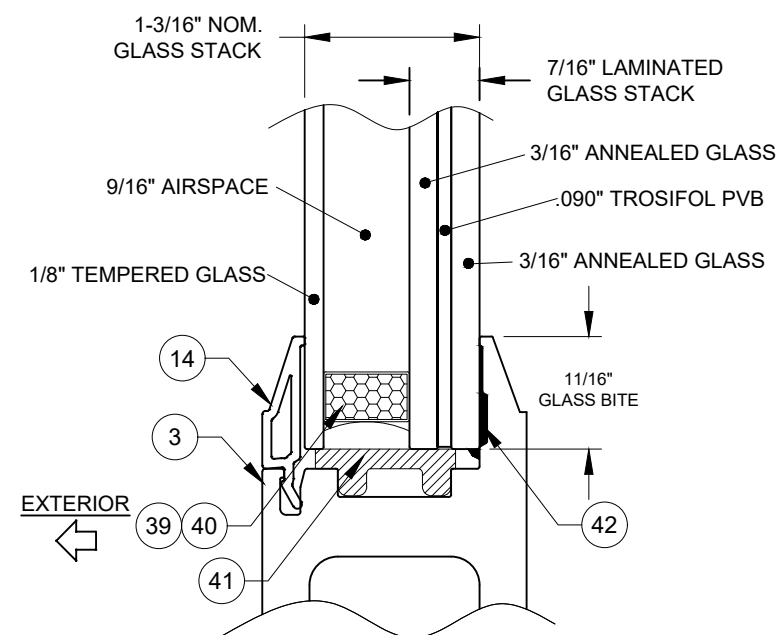
GLASS TYPE 2
USED IN DOOR,
SIDELITE, TRANSOM



GLASS TYPE 3
USED IN DOOR



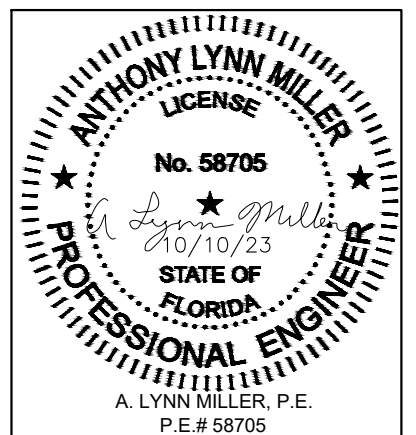
GLASS TYPE 4
USED IN DOOR



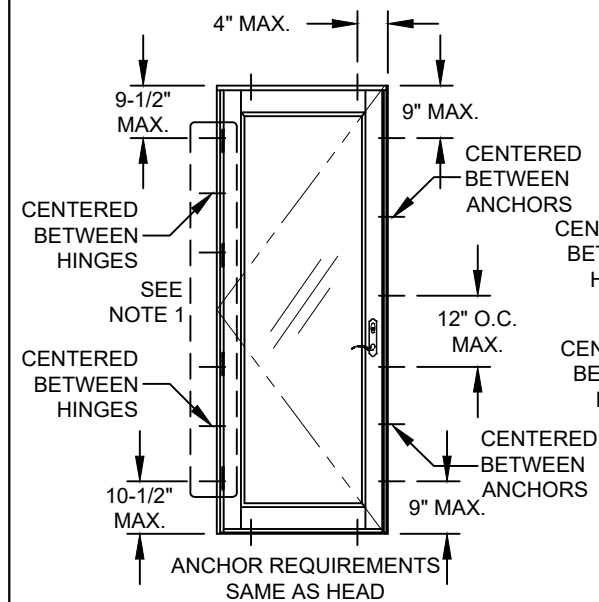
GLASS TYPE 5
USED IN SIDELITE, TRANSOM
MAX. 28 FRAME SQ.FT.

Revision: E) NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	06/12/11	A. MORLESIN	Rev.	E
				Date	
				By	FD5455FFPA-NI
PGI Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	VINYL FRENCH DOOR (NI)	3 OF 11	GLASS TYPES.	DWG	
				Sheet	FD5455
				Series	

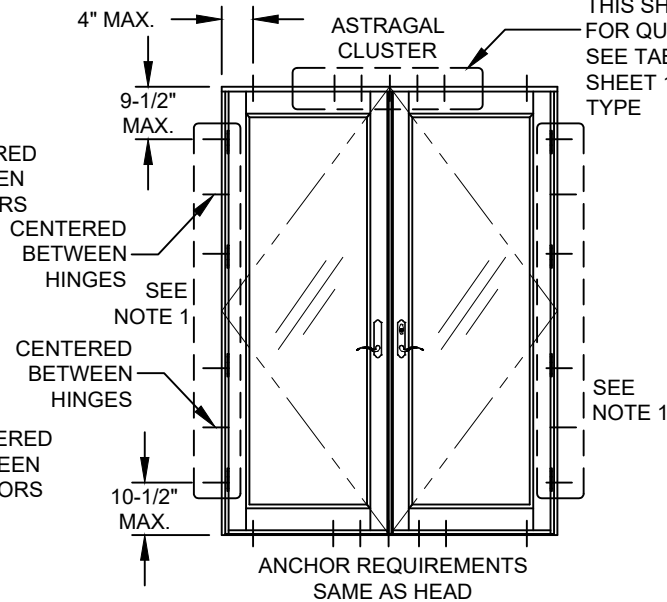


SINGLE DOOR
INSTALLATION
(X)



X

DOUBLE DOOR
INSTALLATION
(XX)



XX, (USING ASTRAGAL)

TABLE 3:

DOOR DESIGN PRESSURE	
+/-50.0 PSF	Glass Types 1, 3, 4
+/-70.0 PSF	Glass Type 2

TABLE 4:

XX Door: Astragal Cluster Anchors Required @ Head & Sill									
Door Height (in)	Door Width (in)								Anchor Group
	48	60	72	76	80	84	88	92	
80	4	4	4	5	4	5	4	4	Anchor Group A-D
96	4	5	4	6	4	6	5	4	Anchor Group A-D

TRANSOM-TO-DOOR (X/O) OR TRANSOM-TO-SIDELITE (O/O)
MULLION ATTACHMENT & INSTALLATION

ATTACH DOORS, SIDELITES & TRANSOMS TO THE MULLION AS PER THE INSTRUCTION OF THE INDIVIDUAL PRODUCT

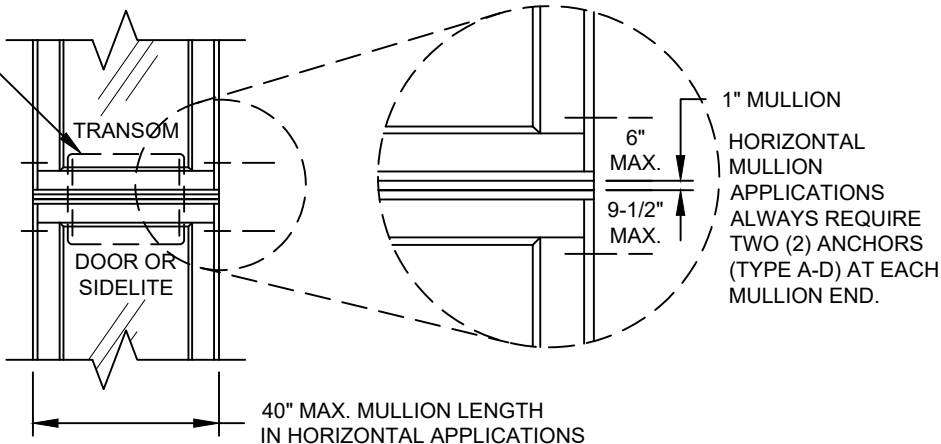


TABLE 7:

HORIZONTAL MULLION DESIGN PRESSURE	
+/-70.0 PSF	

SIDELITE-TO-SIDELITE
MULLION INSTALLATION
(O/O, O/O/O, ETC.)

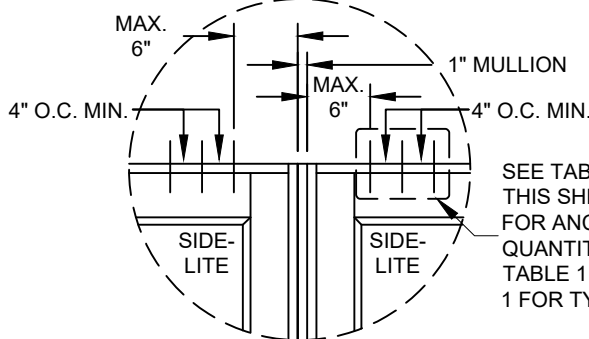
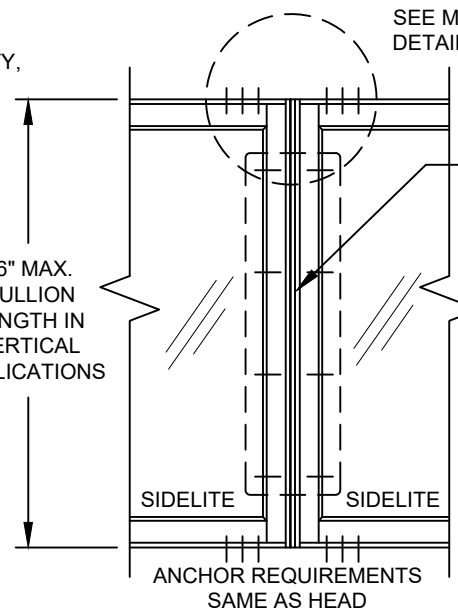


TABLE 5:

VERTICAL MULLION DESIGN PRESSURE	
+/-70.0 PSF	

SIDELITE-TO-DOOR
MULLION INSTALLATION
(X/O, O/X, X/X, O/X/O, X/O/X, O/XX/O, ETC.)

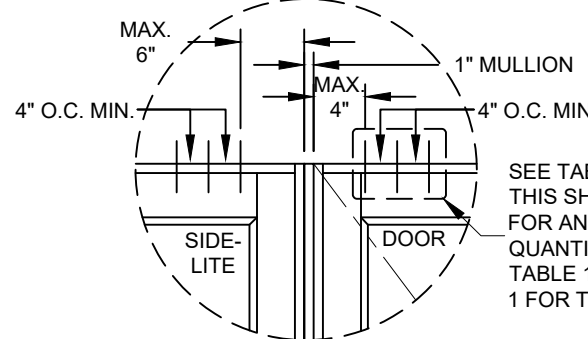
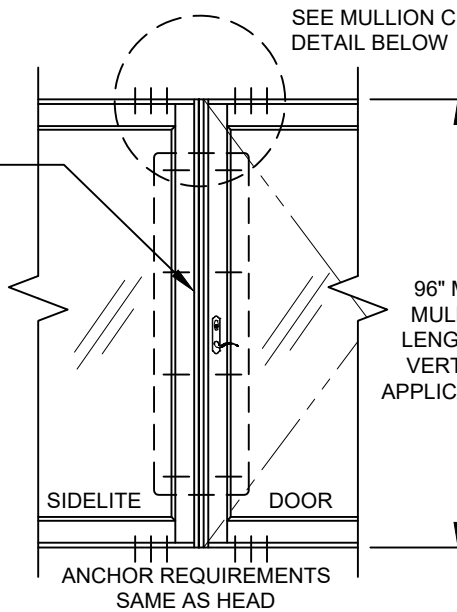


TABLE 6:

Anchors Required for a Vertical Mullion (each mullion end)													
Door or Sidelite/Transom Width (in)	Mullion Height (in)	Door or Sidelite/Transom Width (in)								40			
		12	24	32	36	38	40	42	44	46	48	50	52
Door	80	N/A	2	1	2	2	1	3	2	1	N/A	N/A	N/A
SLT/TR	80	N/A	2	1	2	2	1	3	2	1	3	2	1
Door	96	N/A	2	1	3	2	1	3	3	2	N/A	N/A	N/A
SLT/TR	96	N/A	2	1	3	2	1	3	3	2	3	2	1

FOR "O/XX/O" AND SIMILAR CONFIGURATIONS CONTAINING A DOUBLE DOOR (XX), USE ONLY HALF OF THE FRAME WIDTH OF THE DOUBLE DOOR WHEN USING THIS TABLE.

INSTRUCTIONS:

- 1) DOOR HINGE JAMBS OF ALL HEIGHTS TO ALWAYS BE ANCHORED WITH SIX ANCHORS. SEE TABLE 1, SHEET 1, FOR ALL APPROVED ANCHORS. FOUR OF THE SIX ANCHORS MUST BE INSTALLED THROUGH THE HINGES, ONE AT EACH HINGE LOCATION (RECOMMENDED #10 FLATHEAD SMS OR 3/16" FLATHEAD ULTRA CON FOR EACH HINGE ANCHOR).
- 2) FOR A MULLED UNIT, DETERMINE THE DESIGN PRESSURE OF EACH COMPONENT IN THAT CONFIGURATION. FOR EXAMPLE, ON AN "X/O" CONFIGURATION, THE DP FOR THE DOOR, THE MULLION AND THE SIDELITE MUST EACH BE DETERMINED. THE LOWEST DP APPLIES TO THE ENTIRE ASSEMBLY.

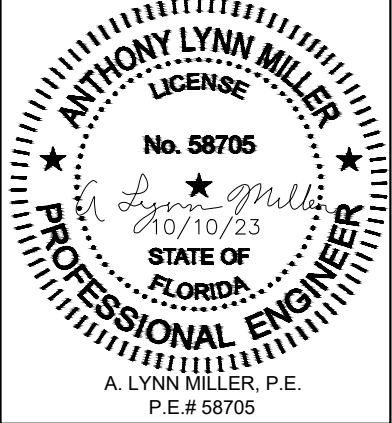
NOTES:

- 1) SINGLE DOOR MAY BE LEFT OR RIGHT-HANDED.
- 2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS.
- 3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE APPROVAL. THE LOWEST COMPONENT DP IS TO BE THE OVERALL ASSEMBLY DP.
- 4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
- 5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
- 6) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

E) NO CHANGES IN THIS SHEET.

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PGI
Custom Windows and Doors
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SIDELITE/TRANSOM INSTALLATION (O)

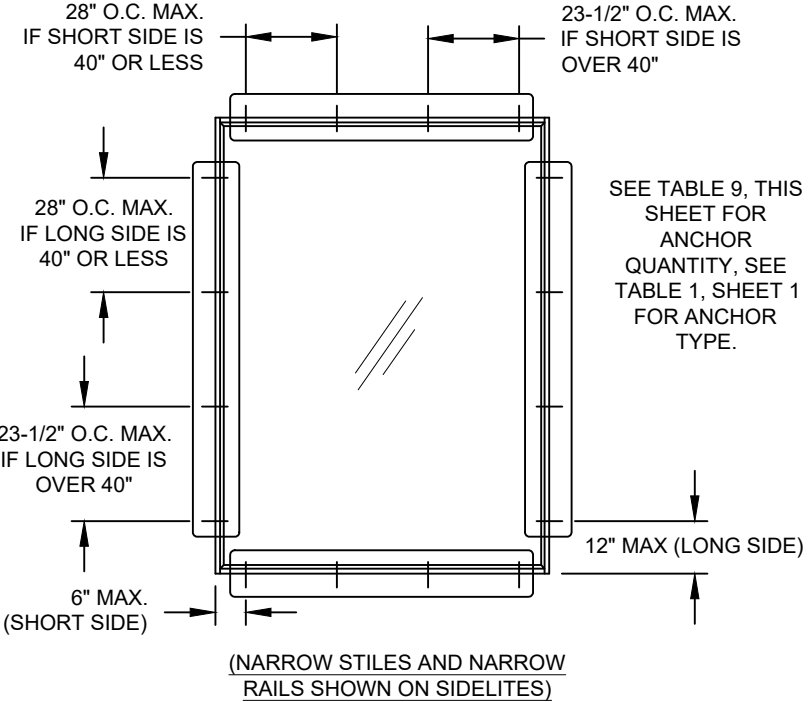
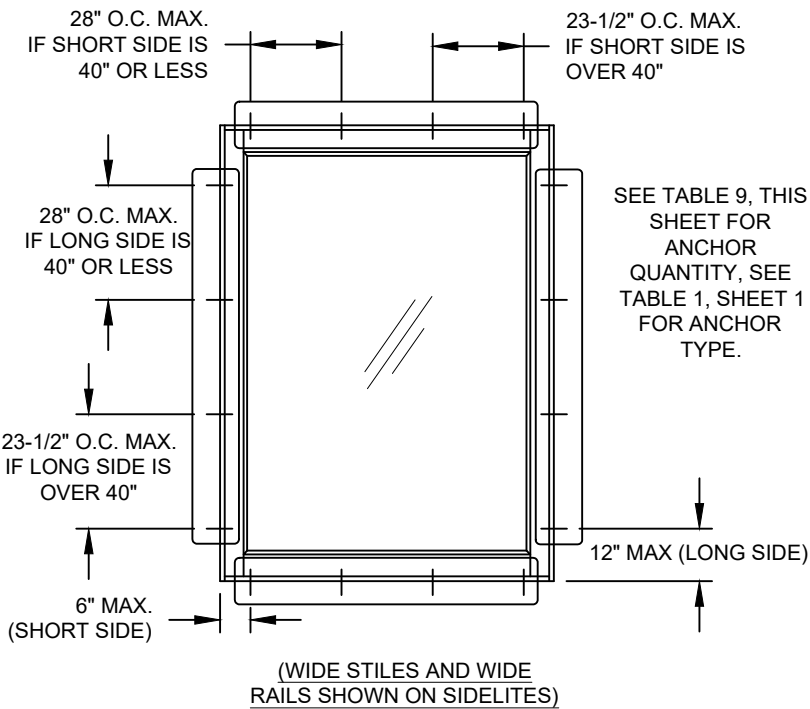


TABLE 8:

WINDOW DESIGN PRESSURE	
+/-70.0 PSF	Glass Types 1, 2, 5

NOTE: GLASS TYPE 5 LIMITED TO MAX. OF 28 SQ.FT.

NOTES:

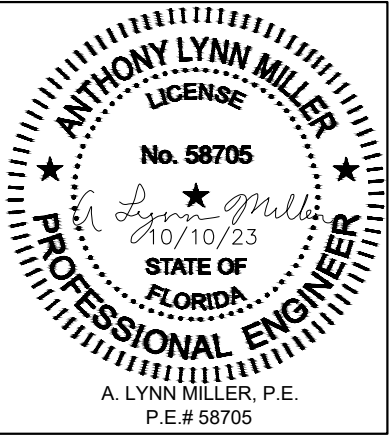
- 1) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
- 2) SIDELITE/TRANSOM MAY BE A SINGLE, STAND-ALONE UNIT.
- 3) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

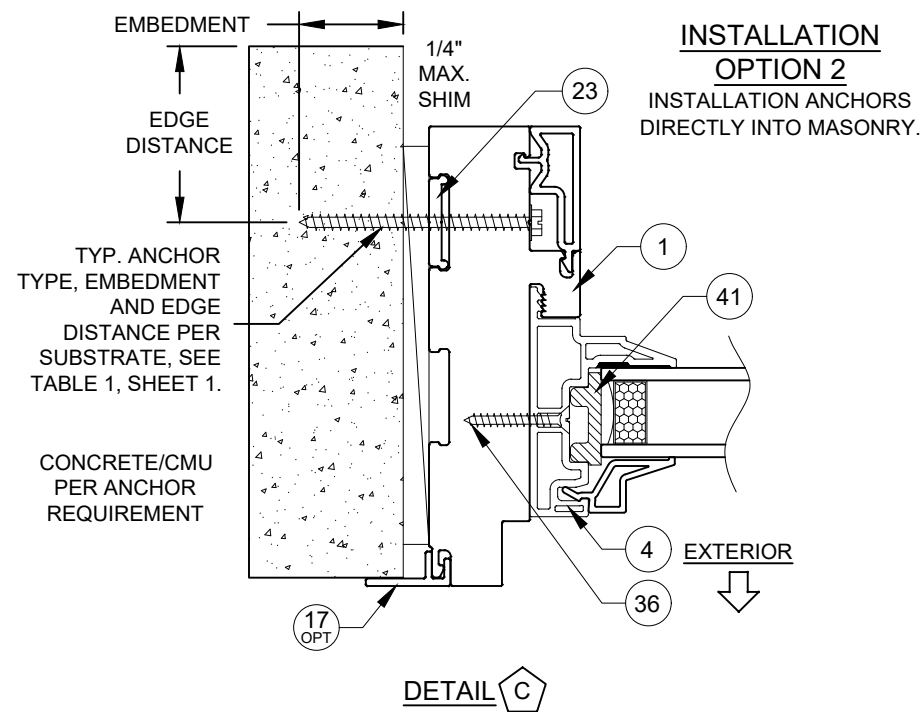
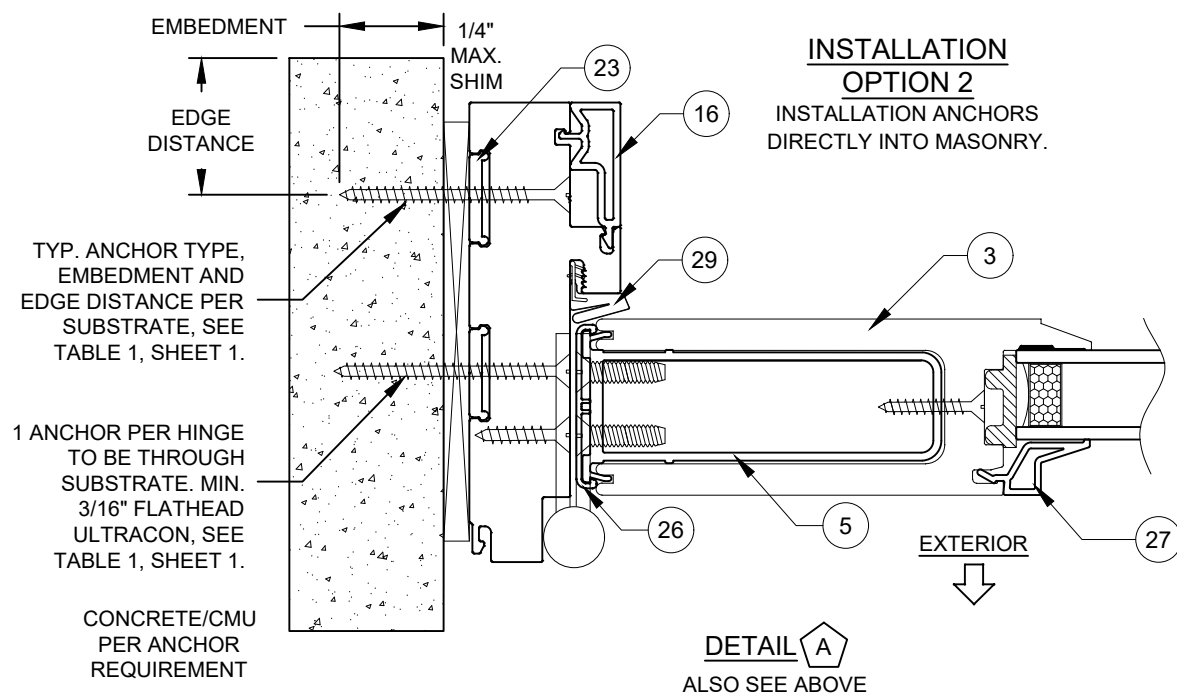
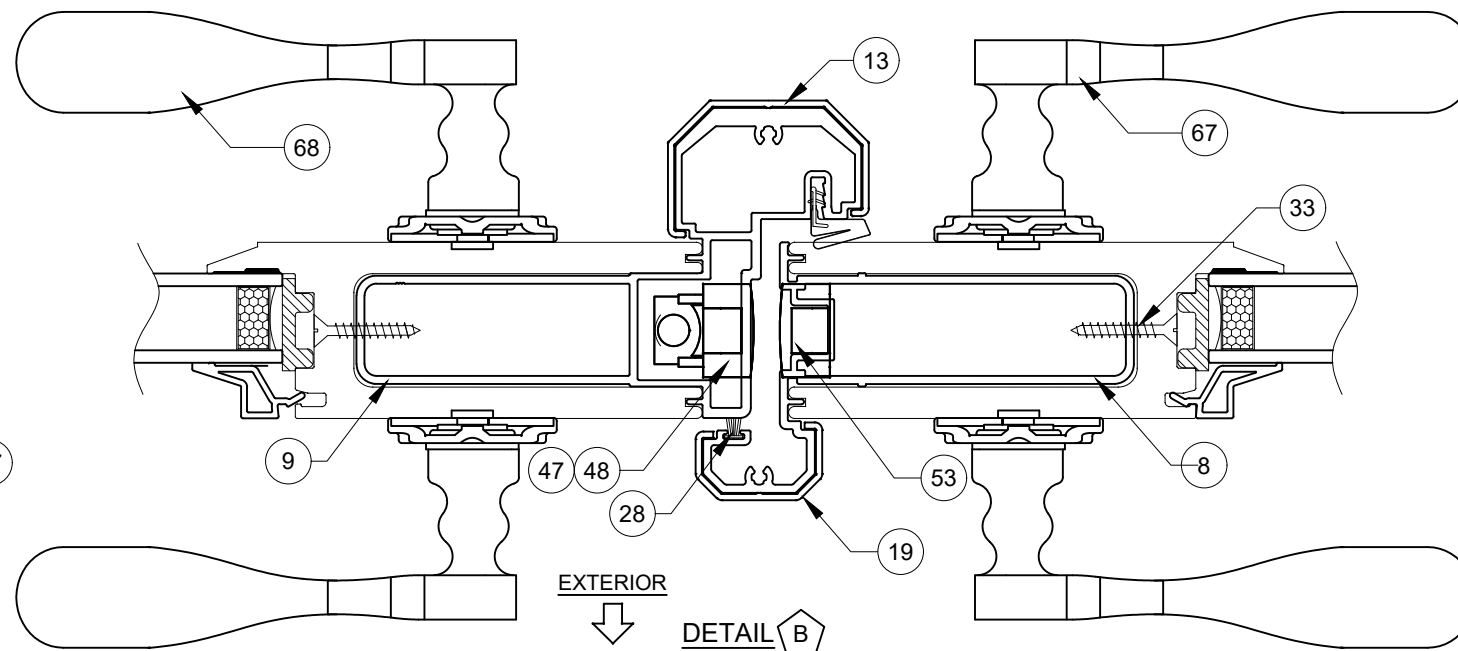
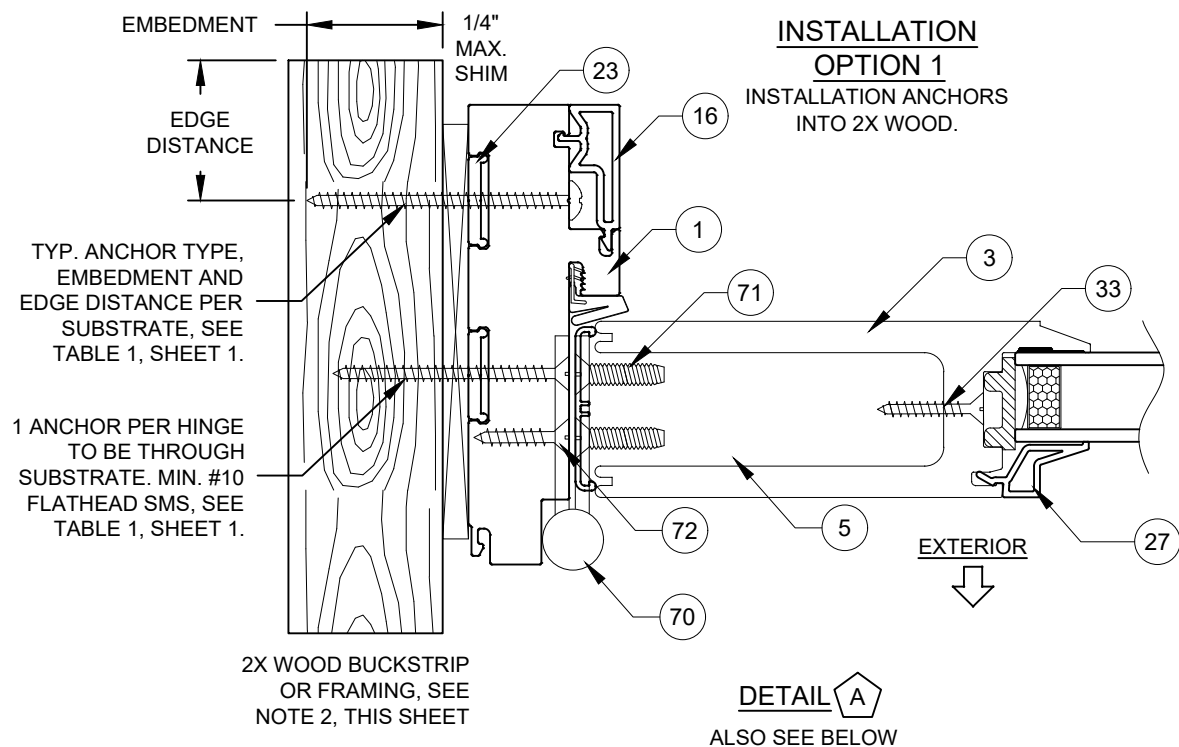
TABLE 9:

			Sidelite/Transom Anchor Quantity																																
			Long Side (in)																																
			63-3/16		66-5/8		68		70		72		76		78		82		84		88		92		96		98		104			108		111	
			Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Group B	Anchor Groups C-D	Anchor Group A	Anchor Groups B-D	Anchor Group A	Anchor Groups B-D
Short Side (in)	24	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	5	5	6	6	6	6	
	28	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	5	5	5	5	6	5	6	5	6	5	5	5	7	6	7	6	
	32	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	4	4	4	4	4	4	4	5	4	5	4	5	4	6	5	6	5	6	5	6	5	7	5	7	5	5	7	6	8	6	
	36	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	5	4	5	4	5	4	5	4	5	4	5	4	6	4	6	5	6	5	7	5	7	5	7	5	8	5	5	7	6	8	6
	38-3/4	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	7	5	8	5	8	5	5	8	6	9	6
40	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	Long Side	4	4	5	4	5	4	5	4	5	4	6	4	6	4	6	4	6	5	7	5	7	5	8	5	8	5	8	5	5	9	6	9	6	

Revision: E) NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		06/12/11		Rev.	E
				Date			
				By	A. MORLESIN		
				Drawn			
		VINYL FRENCH DOOR (NI)				FD5455FPA-NI	
		DP & ANCHORAGES				5 OF 11	
						No. DWG	
						Sheet	
						FD5455	
						5 OF 11	
						FD5455FPA-NI	
						Rev.	
						E	



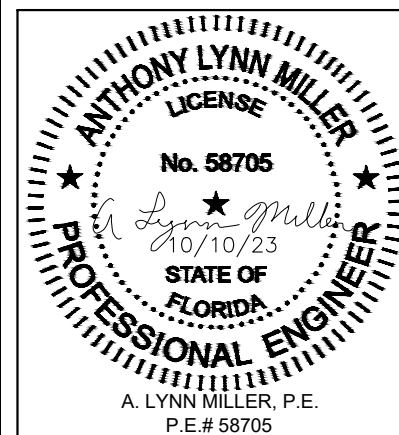


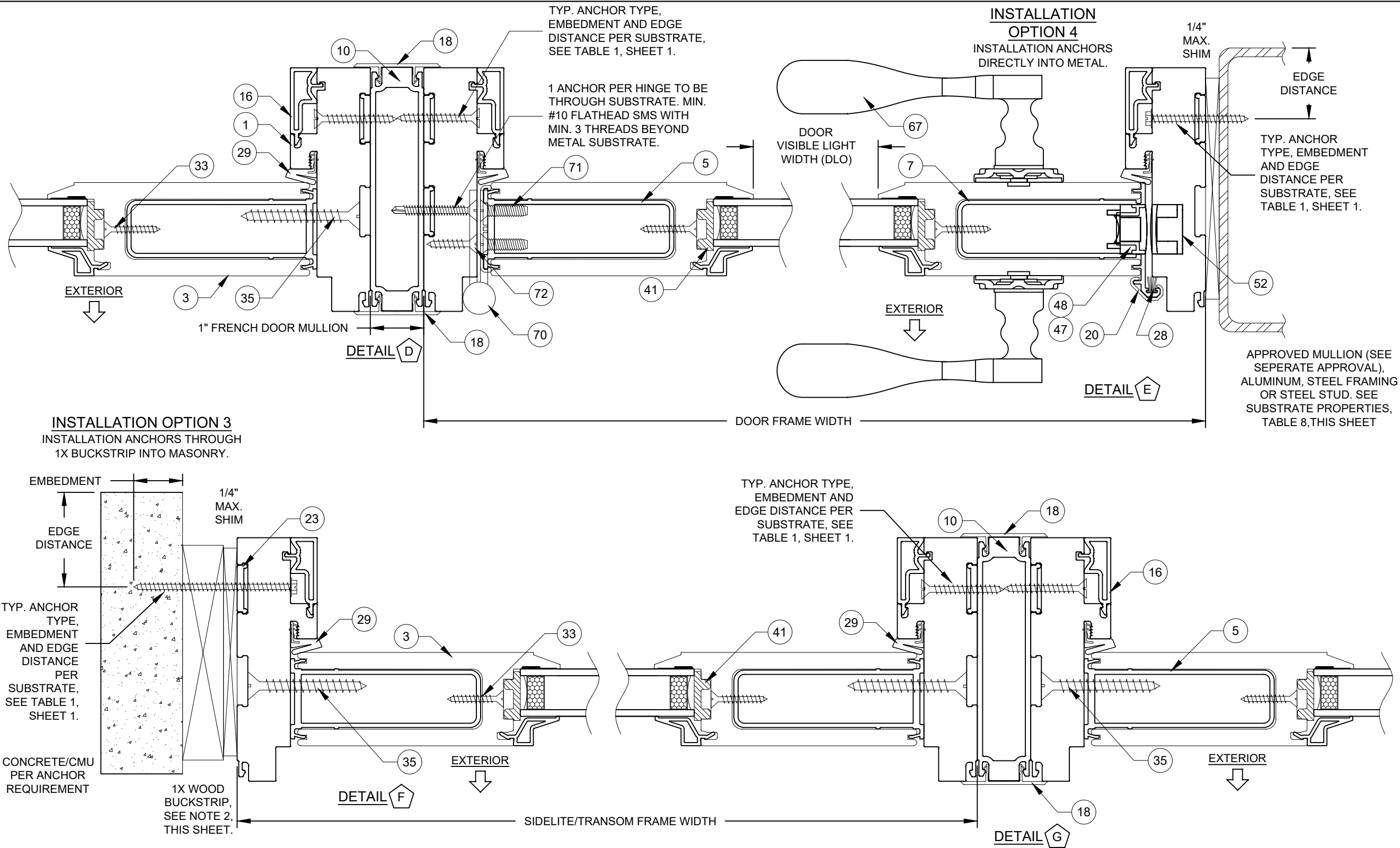
INSTALLATION NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 1. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR, SIDELITE OR TRANSOM.
- 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO MASONRY. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 3) FOR ATTACHMENT TO METAL: THE STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE FRAME OF THE DOOR, SIDELITE OR TRANSOM.
- 4) IF APPLICABLE, LOWEST DESIGN PRESSURE FROM DOOR, SIDELITE, TRANSOM OR MULLION APPLIES TO THE WHOLE SYSTEM.

Revision:
E) NO CHANGES IN THIS SHEET.

PGT		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Custom Windows and Doors		REGISTRATION #29296	
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		06/12/11	
VINYL FRENCH DOOR (NI)		Date	
INSTALLATION DETAILS.		By Drawn	A. MORLESIN
FD5455	6 OF 11	DWG No.	FD5455FFPA-NI
Sheet			Rev.
Series			E
Desc.			
Title			





Revision:

E) NO CHANGES IN THIS SHEET.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

DATE 06/12/11

PGI
Custom Windows and Doors

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

VINYL FRENCH DOOR (NI)

INSTALLATION DETAILS.

FD5455

7 OF 11

FD5455FFPA-NI

E

ANTHONY LYNN MILLER

LICENSE

No. 58705

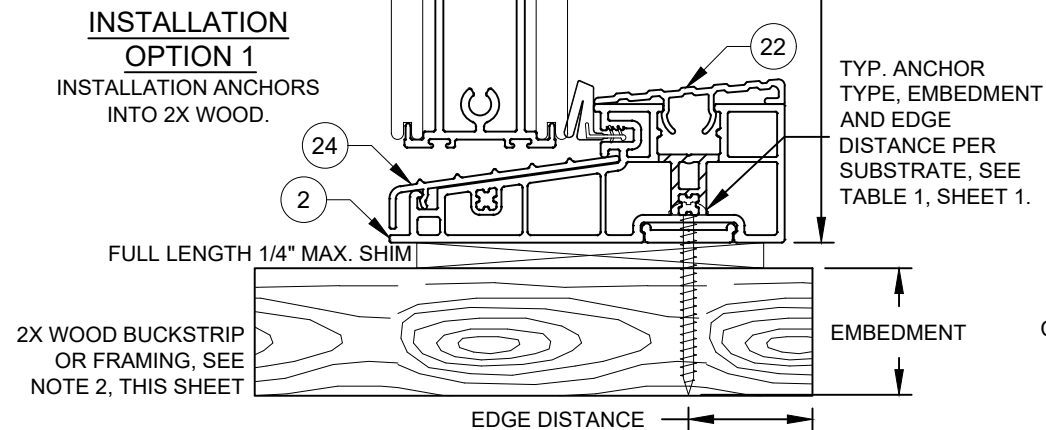
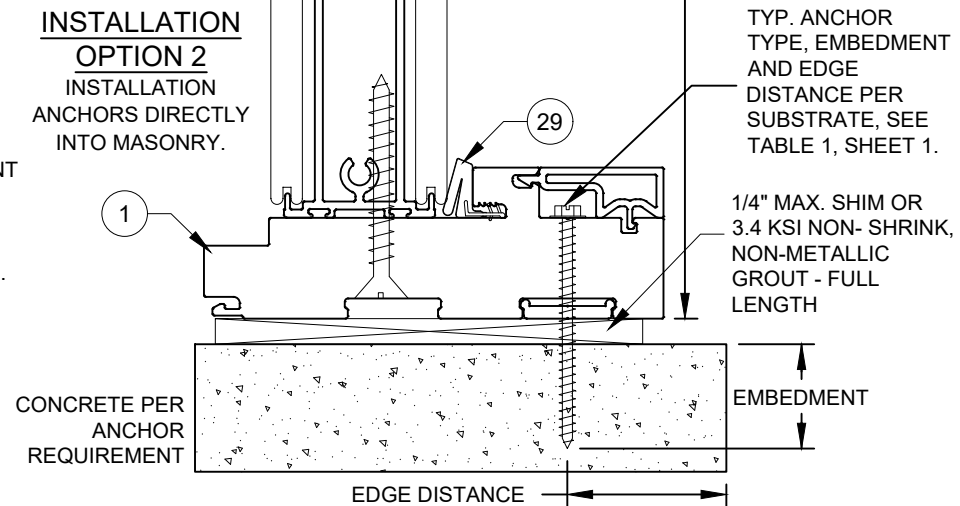
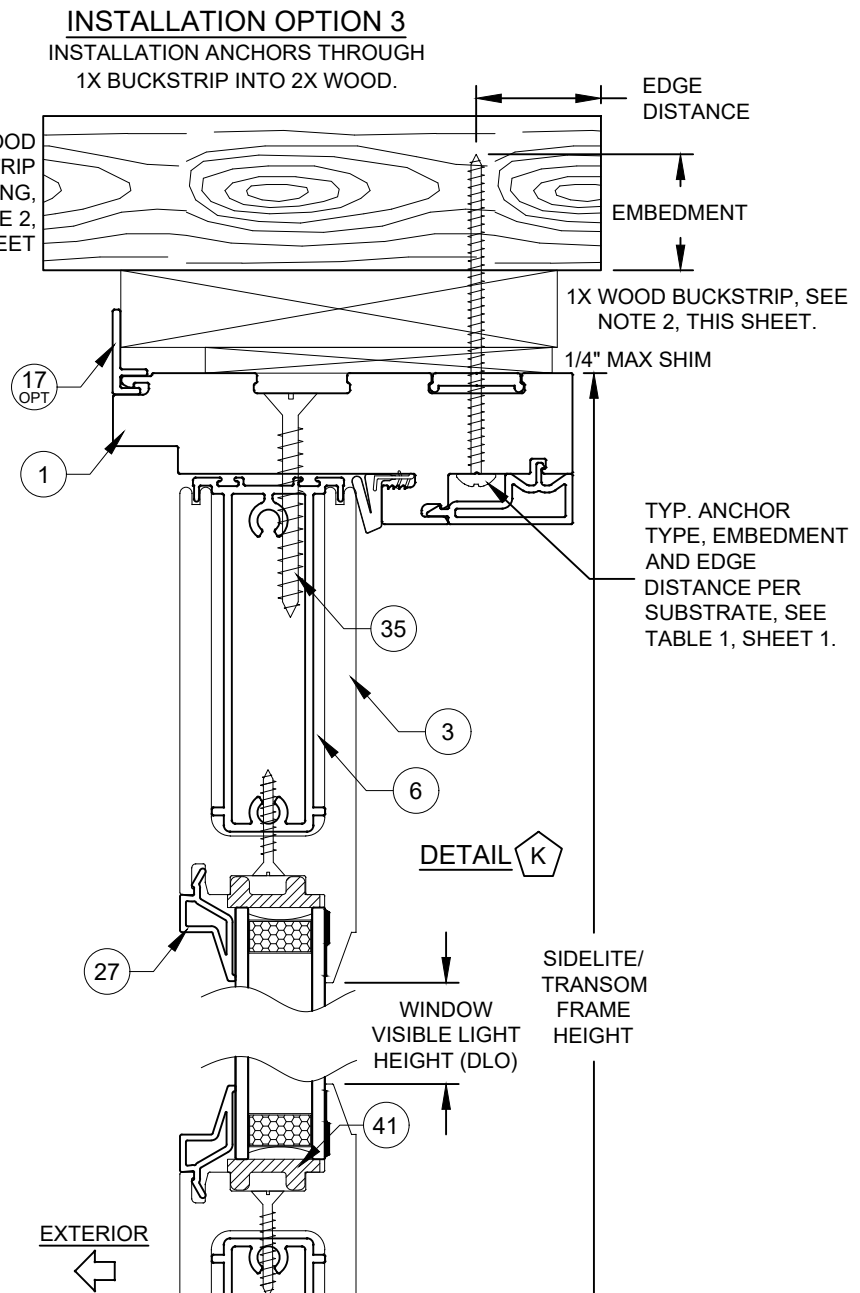
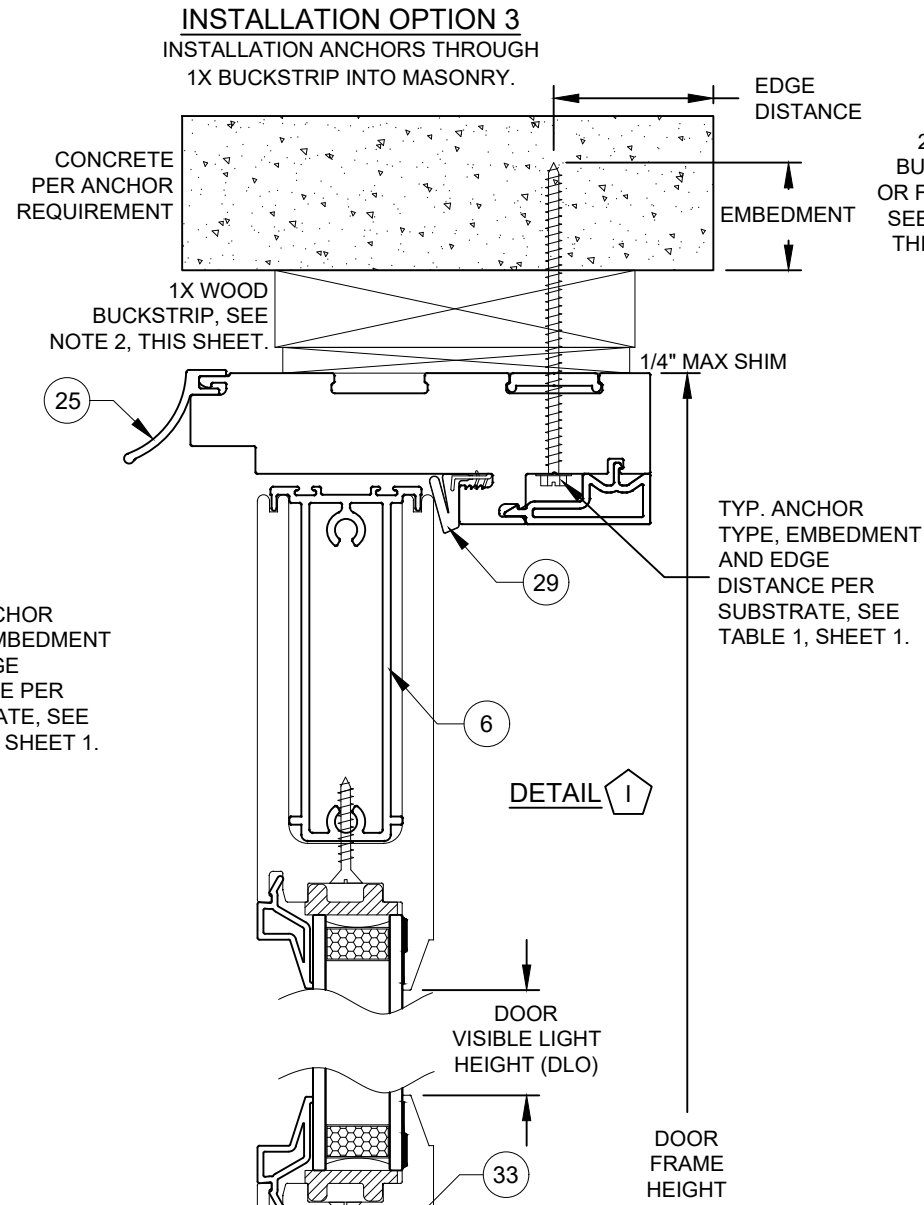
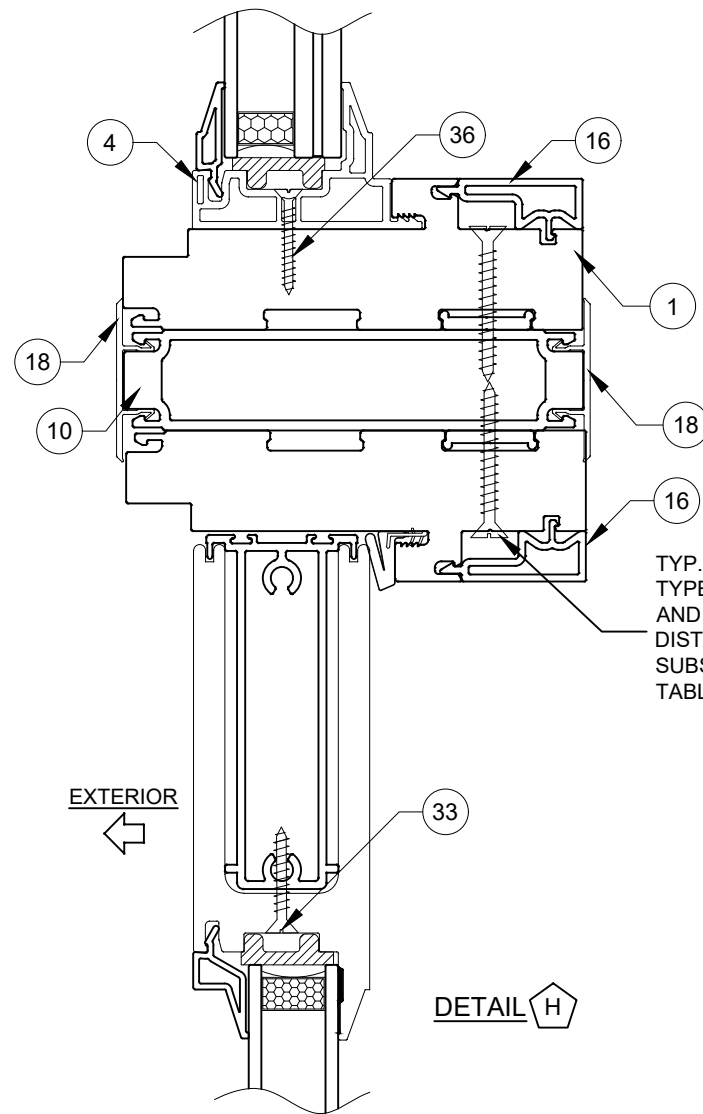
10/10/23

STATE OF FLORIDA

PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.

P.E.# 58705

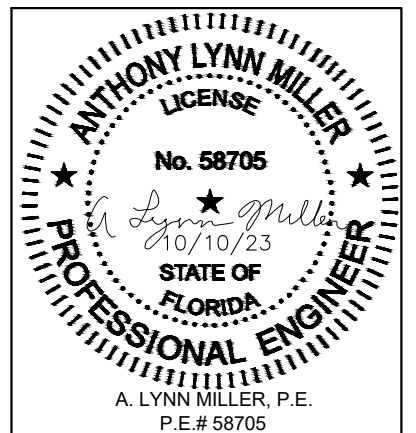


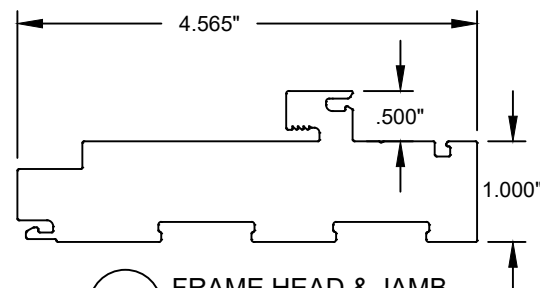
INSTALLATION NOTES:

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- 4) IF APPLICABLE, LOWEST DESIGN PRESSURE FROM DOOR, SIDELITE, TRANSOM OR MULLION APPLIES TO THE WHOLE SYSTEM.

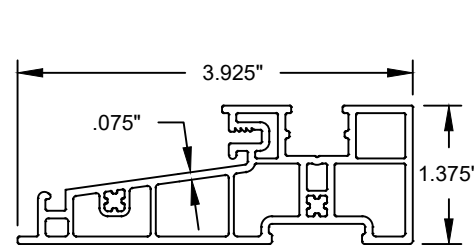
Revision: E) NO CHANGES IN THIS SHEET.

 Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
		VINYL FRENCH DOOR (NI)		Date	06/12/11
		INSTALLATION DETAILS.		Drawn By	A. MORLESIN
Series	FD5455	Sheet	8 OF 11	DWG No.	FD5455FFPA-NI
Rev.	E				

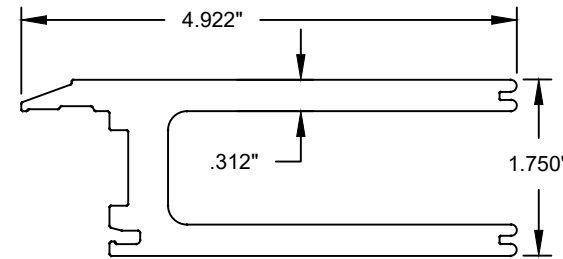




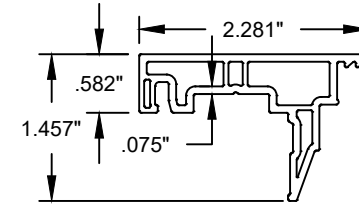
1 FRAME HEAD & JAMB
#20000, Cellular PVC



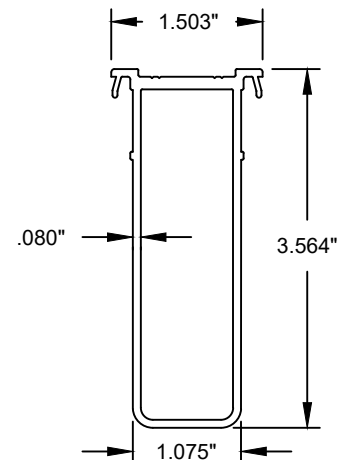
2 FRAME SILL
#20001, Rigid PVC



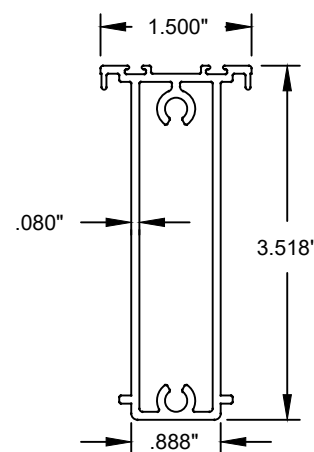
3 PANEL RAIL & STILE
#20002, Cellular PVC



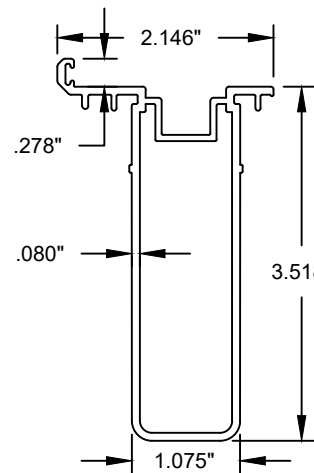
4 SIDELITE ADAPTER
#20003, Rigid PVC



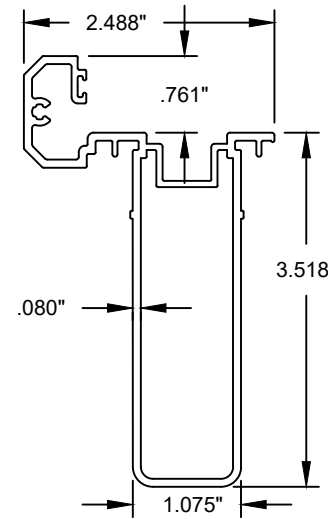
5 HINGE STILE
REINFORCEMENT
#20013, 6063-T6



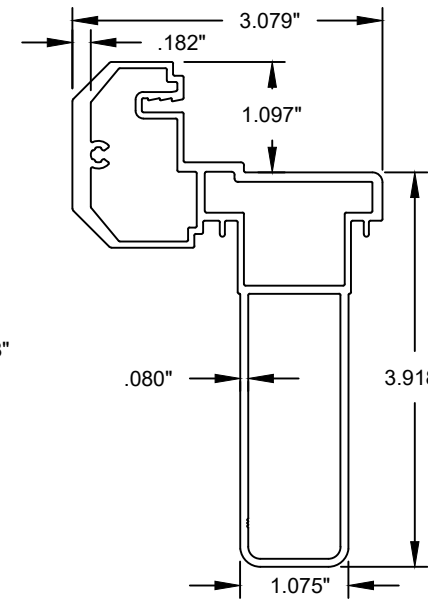
6 TOP & BOTTOM RAIL
REINFORCEMENT
#20014, 6063-T6



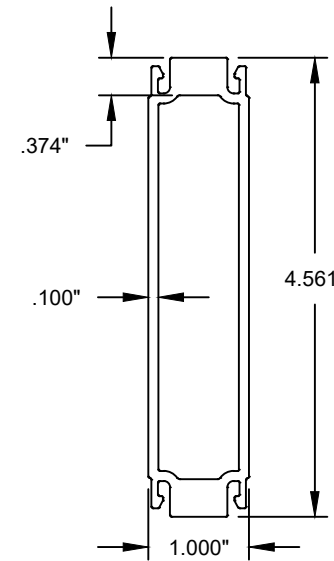
7 PANEL STILE
REINFORCEMENT
#20015, 6063-T6



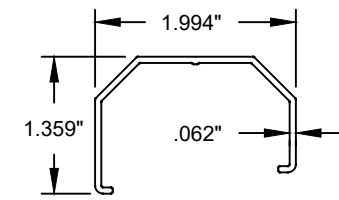
8 ACTIVE
ASTRAGAL
#20016, 6063-T6



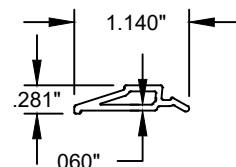
9 INACTIVE
ASTRAGAL
#20017, 6063-T6



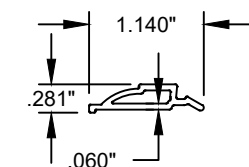
10 1" FRENCH
DOOR MULLION
#20022, 6063-T6



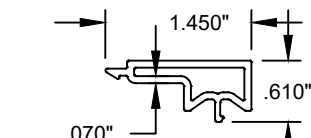
13 INACTIVE
ASTRAGAL COVER
#20004, Rigid PVC



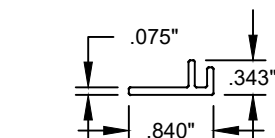
14 BEVELED
BEAD
#20005, Rigid PVC



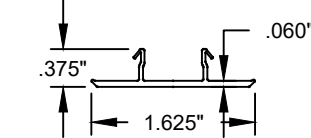
15 OGEE
BEAD
#20006, Rigid PVC



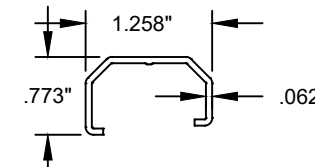
16 FRAME SCREW
COVER
#20007, Rigid PVC



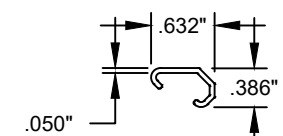
17 ADD-ON
FIN/FLANGE
#20008, Rigid PVC



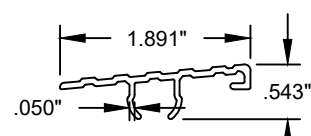
18 1" MULLION
CAP
#20009, Rigid PVC



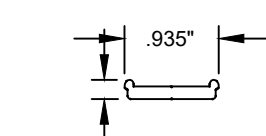
19 ACTIVE
ASTRAGAL COVER
#20011, Rigid PVC



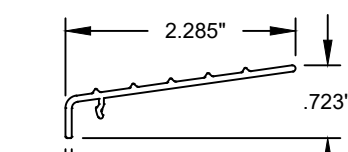
20 SINGLE DOOR
ASTRAGAL COVER
#20012, Rigid PVC



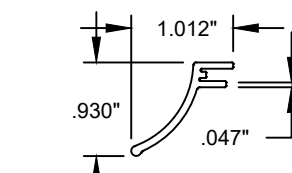
22 SILL SCREW CAP
#20057A, 6063-T6



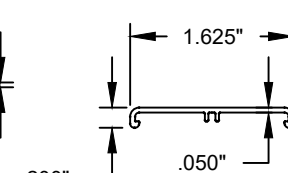
23 ANCHOR
PLATE
#19031, 6063-T6



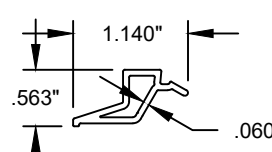
24 THRESHOLD
CAP
#20020, 6063-T6



25 DRIP CAP
#20021, RIGID PVC



26 HINGE TRIM
COVER
#20023, Rigid PVC



27 7/8" BEVELED
BEAD
#20024, Rigid PVC

Revision:

E) NO CHANGES IN
THIS SHEET.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600



1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

VINYL FRENCH DOOR (NI)

EXTRUSIONS.

FD5455

9 OF 11

DWG No.

FD5455FFPA-NI

Rev.

E

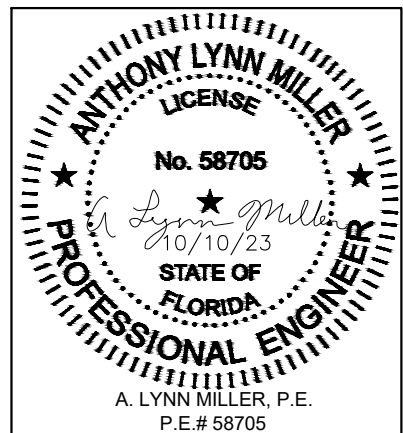


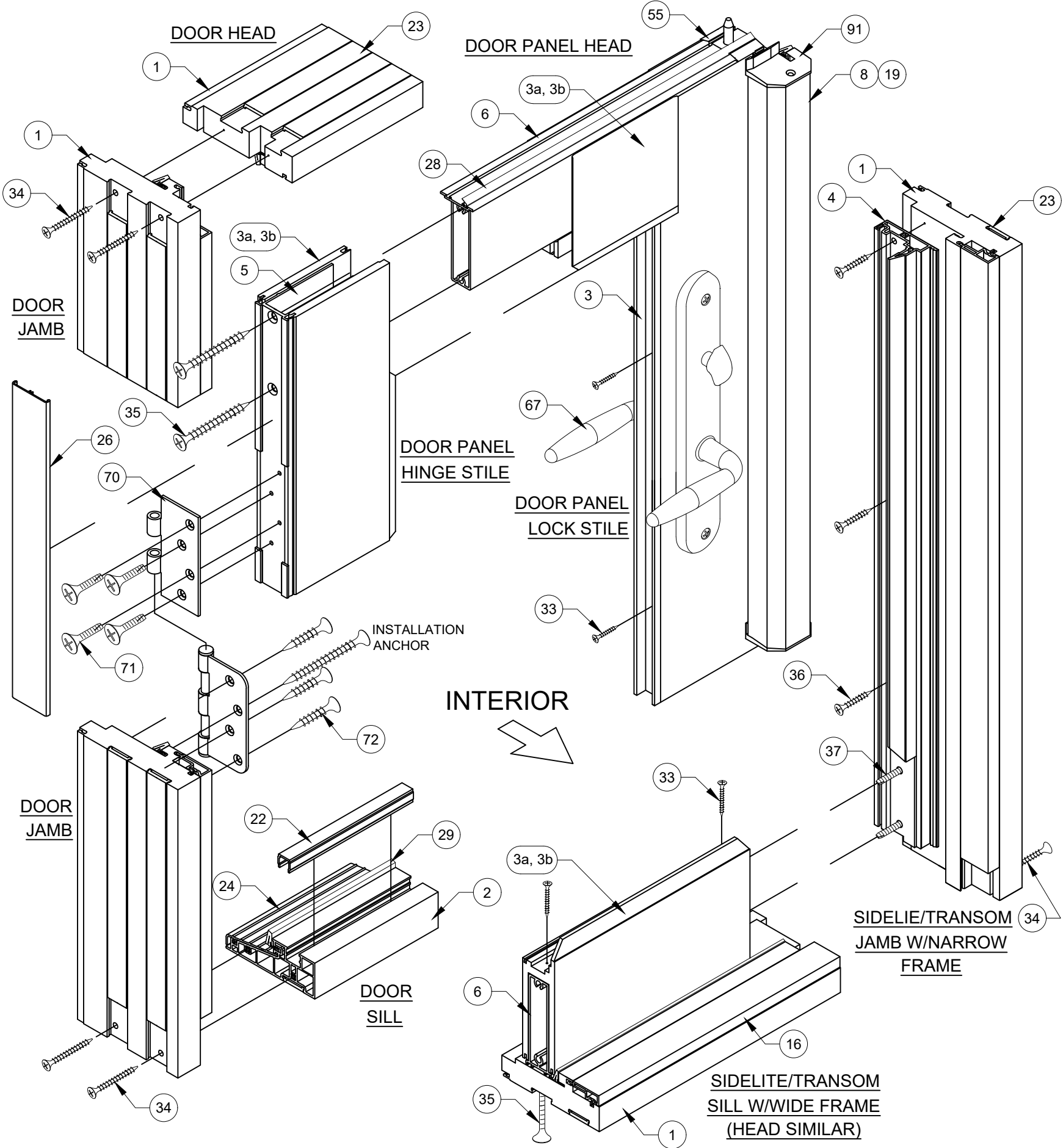
TABLE 10:

#	PGT Part #	Description	Material
1	20000	Door & Sidelite/Transom Main Frame	Cellular PVC
2	20001	Door Frame Sill	Rigid PVC
3	20002	Panel Stile & Rail	Cellular PVC
4	20003	Sidelite Adapter	Rigid PVC
5	20013	Hinge Stile Reinforcement	Alum., 6063-T6
6	20014	Panel Rail Reinforcement	Alum., 6063-T6
7	20015	Panel Stile Reinforcement	Alum., 6063-T6
8	20016	Active Astragal	Alum., 6063-T6
9	20017	Inactive Astragal	Alum., 6063-T6
10	20022	1" French Door Mullion	Alum., 6063-T6
13	20004	Inactive Astragal Cover	Rigid PVC
14	20005	1-3/16" Bevel Bead	Rigid PVC
15	20006	1-3/16" Ogee Bead	Rigid PVC
16	20007	Screw Cover	Rigid PVC
17	20008	Add-on Fin/Flange	Rigid PVC
18	20009	1" Mullion Cap	Rigid PVC
19	20011	Active Astragal Cover	Rigid PVC
20	20012	Single Door Astragal Cover	Rigid PVC
22	20057A	Sill Screw Cover	Rigid PVC
23	19031	Anchor Plate	Alum., 6063-T6
24	20020	Threshold Cover	Alum., 6063-T6
25	20021	Drip Cap	Rigid PVC
26	20023	Hinge Trim Cover	Rigid PVC
27	20024	7/8" Beveled Bead	Rigid PVC
28		Fin Weatherstrip	
29	1671/3	Frame Weatherstrip	
31	714FPT410XW	Frame-to-Wide Slab Screw: #14 X 1-1/2" Phil. FH	Stainless Steel
32	7S101X	Frame-to-Narrow Slab Screw: #10 X 1" Phil. FH	Stainless Steel
33	78X1FPT410	Reinforcement Screw: #8 X 1" Phil. FH	Stainless Steel
34	710X2FPAX	Frame Assembly Screw: #10 X 2" Phil. FH	Stainless Steel
35	714FPT410XW	W-W Slab Assembly Screw: #14 X 1-1/2" Phil. FH	Stainless Steel
36	7S101X	N-N Slab Assembly Screw: #10 X 1" Phil. FH	Stainless Steel
37	71420X2.25	N-W Slab Assembly Screw: #14 X 2-1/4" Phil. FH	Stainless Steel
39		DuraSeal Spacer	
40	62689	SuperSpacer	
41	720026	Setting Block, (Duro.=85 +/- 5)	EPDM
42		Backbedding: Dow-791, 983, 995 or GE-7700	Silicone
43		Argon Gas	
44	6HL5140	Hot Melt Butyl	
47 - 73 see Hardware BOM, Table 9, Sheet 12			
90	20033	Inactive Astragal Cap	Acetal
91	20035	Active Astragal Cap	Acetal

DAYLITE OPENING (DLO) SIZES

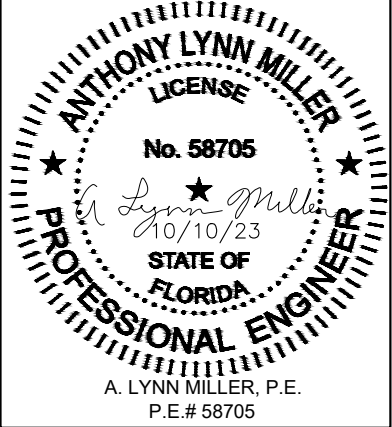
WHEN USING PART # 3: (WIDE RAILS OR STILES)
X DOOR FRAME HEIGHT - 12.1 = DLO HEIGHT
X DOOR FRAME WIDTH - 12.3 = DLO WIDTH
(XX DOOR FRAME HEIGHT / 2) - 12.1 = DLO HEIGHT
(XX DOOR FRAME WIDTH / 2) - 11.7 = DLO WIDTH
SLT/TR FRAME HEIGHT - 12.1 = DLO HEIGHT
SLT/TR FRAME WIDTH - 12.1 = DLO WIDTH

WHEN USING PART # 4: (NARROW RAILS OR STILES)
SLT/TR FRAME HEIGHT - 4.9 = DLO HEIGHT
SLT/TR FRAME WIDTH - 4.9 = DLO WIDTH

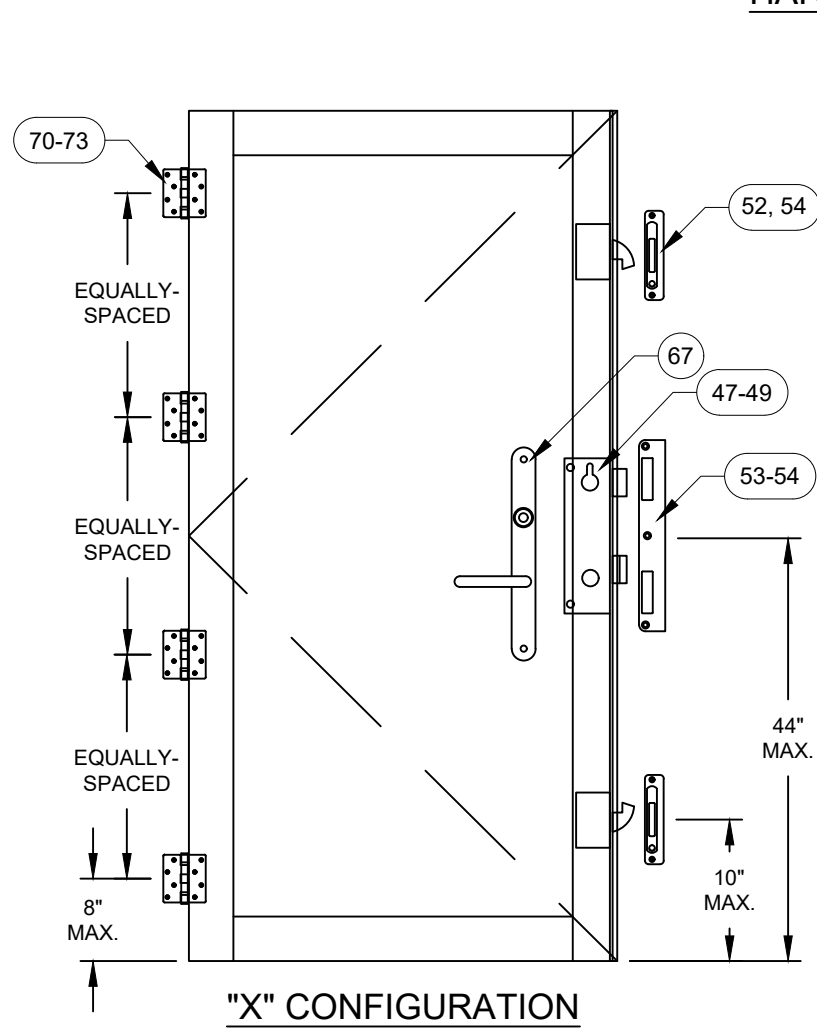


Revision:
E) NO CHANGES IN THIS SHEET.

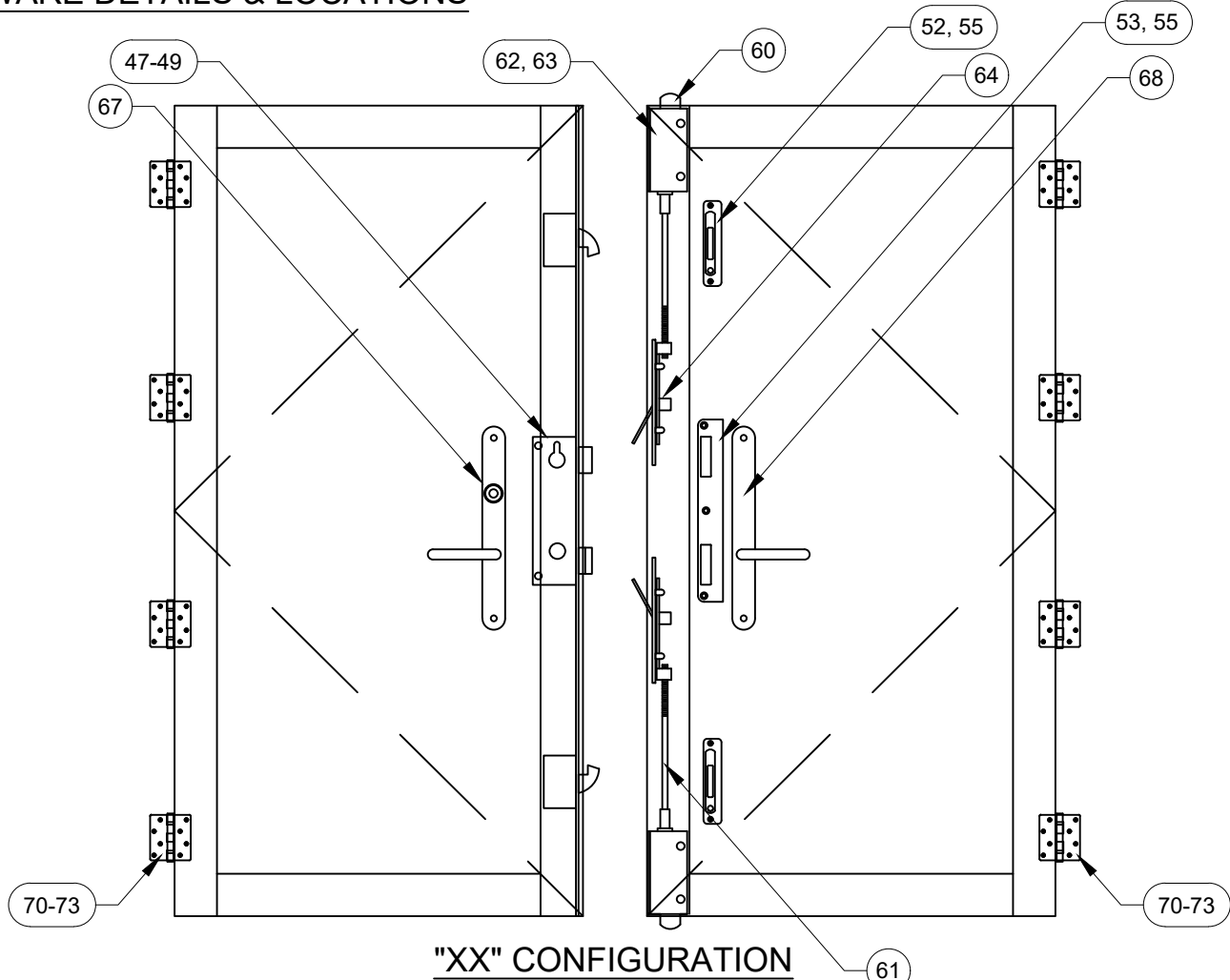
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	Date	06/12/11	By	A. MORLESIN	Rev.	E
		VINYL FRENCH DOOR (NI)		BOM & ASSEMBLY DETAILS.		DWG No.	10 OF 11
		PGT Custom Windows and Doors		FD5455		Sheet	FD5455



HARDWARE DETAILS & LOCATIONS



"X" CONFIGURATION

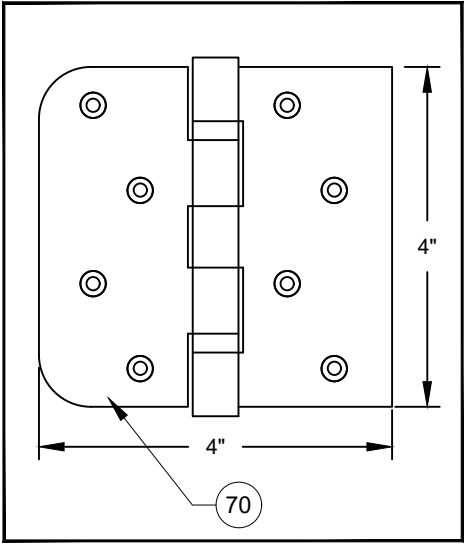


"XX" CONFIGURATION

TABLE 11:

#	PGT Part #	Description	Material
47	666032701	P3000 3-PT Rhino Lock (6"8")	
48	666032702	P3000 3-PT Rhino Lock (over 6"8")	
49	71032X1FPFX	Rhino Lock Screw: 10-32 X 1" Phil. FH	
52	20027	Adjustable Strike Plate Assembly	Stainless Steel
53	20028	Center Strike Plate Assembly	Stainless Steel
54	7S101X	Strike Plate Screw, (X): #10 X 1" Phil. FH	410 S.S.
55	78X12PFHUX	Strike Plate Screw, (XX): #8 X 1/2" Phil. FH	410 S.S.
60	7SB1202	Flush Bolt (XX)	
61	7803725	Flush Bolt Rod (XX)	
62	420034	Flush Bolt Guides (XX)	
63	7832X12FPXP	Flush Bolt Screw: 8-32 X 1/2" Phil. FH	
64	48033N	Guide Pin (XX)	
65	78036	Flush Bolt Strike Plate (XX)	Stainless Steel
66	7832X12FPXP	Flush Bolt Strike Plate Screw, (XX): #8 X 3/4" Phil. FH	410 S.S.
67	varies	Handle/Lever	
68	varies	Dummy Handle/Lever	
70	20025	Butt Hinge	Stainless Steel
71	71032X1FPFX	Hinge, Slab Screw: #10-32 X 1" Phil FH	Stainless Steel
72	7S101X	Hinge, Frame Screw: #10 X 1" Phil. FH	Stainless Steel

HINGE DETAIL:



Revision: E) NO CHANGES IN THIS SHEET.

PGT Custom Windows and Doors		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296					
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Series		Title		VINYL FRENCH DOOR (NI)		Date		06/12/11	
FD5455		HARDWARE.		By		A. MORLESIN		FD5455FPA-NI	
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