



Product Approval
USER: Public User

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FL #
Application Type
Code Version
Application Status

FL331-R16
Revision
2020
Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments
Archived



Product Manufacturer
Address/Phone/Email

PGT Industries
1070 Technology Drive
North Venice, FL 34275
(941) 486-0100 Ext 21140
jrosowski@pgtindustries.com

Authorized Signature

Jens Rosowski
jrosowski@pgtindustries.com

Technical Representative
Address/Phone/Email

Lynn Miller, P.E.
1070 Technology Dr
N Venice, FL 34275
(941) 486-0100 Ext 21142
lmiller@pgtindustries.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Exterior Doors
Swinging Exterior Door Assemblies

Compliance Method

Certification Mark or Listing

Certification Agency
Validated By

Keystone Certifications, Inc.
Steven M. Urich, PE
 Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

<u>Standard</u>	<u>Year</u>
AAMA 450	2010
AAMA/WDMA/CSA 101/1.S.2/A440	2008
ASTM E-1886	2005
ASTM E-1886	2013
ASTM E-1996	2009
ASTM E-1996	2012

Equivalence of Product Standards
Certified By

Florida Licensed Professional Engineer or Architect
FL331 R16 Equiv ASTM E1886-04-05 to E1886-13a and E1996-05-06-09 to E1996-17 Equivalency Letter 2020-09-09.pdf

Product Approval Method

Method 1 Option A

Date Submitted

10/27/2020

Date Validated

11/03/2020

Date Pending FBC Approval

Date Approved

11/11/2020

Summary of Products

FL #	Model, Number or Name	Description
331.1	CD-290	Aluminum Hinged 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.		Certification Agency Certificate FL331_R16_C_CAC_Certification - CD290.pdf Quality Assurance Contract Expiration Date 09/21/2021 Installation Instructions FL331_R16_II_CD290_FPA - Rev A.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331_R16_AE_CD290_Evaluation.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.		Certification Agency Certificate FL331_R16_C_CAC_Certifications FD5455 C.pdf Quality Assurance Contract Expiration Date 05/21/2023 Installation Instructions FL331_R16_II_FD5455_FPA - Rev A.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331_R16_AE_FD5455_Evaluation.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.		Certification Agency Certificate FL331_R16_C_CAC_Certifications FD5555 C.pdf Quality Assurance Contract Expiration Date 05/21/2023 Installation Instructions FL331_R16_II_FD5555_FPA - Rev A.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL331_R16_AE_FD5555_Evaluation.pdf Created by Independent Third Party: No

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Product Approval Accepts:



**GENERAL NOTES: SERIES 5455,
NON-IMPACT-RESISTANT, VINYL REINFORCED, OUTSWING
FRENCH DOOR & SIDELITE/TRANSOM (SLT/TR)**

GENERAL NOTES: SERIES 5455

**NON-IMPACT-RESISTANT, VINYL, REINFORCED, OUTSWING
FRENCH DOOR & SIDELITE/TRANSOM (SLT/TR)**

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, 3/400 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, 3/64 FELD PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS OBSERVED BY THE AUTHORITY HAVING JURISDICTION. COMPLYING WITH THE REC.

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, SIDE LITE OR TRANSOM.

8) DESIGN PROCESSES:

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

9) 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 1.8 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 SYSTECH, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA RULING CODE FOR PLASTICS.

10) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE

44\ OBSERVANCES: TEST BEDQBSTS WITH 7404 7416 & 7417

THE UNIVERSITY OF CHICAGO PRESS

Product	Size	DP	Certification #
Mullion	96"	+/-70 psf	190-1010
Door	38-3/4" x 96" (X) 76" x 96" (XX)	+/-70 psf	190-1008
Sidelite or Transom	40" x 111" 111" x 40"	+/-70 psf	190-1004, 1005

TABLE 2.

Type #	Description
1	1/8" Tempered - 5/8" Airspace - 1/8" Tempered
2	3/16" Tempered - 1/2" Airspace - 3/16" Tempered

TABLE 1:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	3/16" Ultracon	Concrete (min. 2,85 ksi)	1"	1-3/8"
		Ungrouted CMU (ASTM C-90)	1"	1-1/4"
	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"	1-1/8"
		Aluminum, 6063-T5	5/16"	0.063"
		Steel, A36*	5/16"	0.063"
		Steel Stud, A853 Gr. 33*	5/16"	0.063"
	3/16" Ultracon	P.T. Southern Pine (SG=0.55)	1/2"	1-3/8"
		Grouted CMU (ASTM C-90)	2-1/2"	2-1/4"
	3/16" Ultracon+	Concrete (min. 2,85 ksi)	1"	1-3/8"
		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"
C	1/4" Ultracon	Ungrouted CMU (ASTM C-90)	2-1/2"	1-1/4"
		Ungrouted CMU (ASTM C-90)	1-1/16"	1-1/4"
	#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, A853 Gr. 33*	3/8"	0.071" (1/4 Ga)
	1/4" Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Grouted CMU (ASTM C-90)	2-1/2"	1-3/4"
		Concrete (min. 2,85 ksi)	1"	1-3/8"
		P.T. Southern Pine (SG=0.55)	1-1/8"	1-3/8"
D	1/4" Ultracon+	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"
		P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 3,27 ksi)	1-1/2"	1-3/8"
	1/4" 18-8 S.S. Aggre-Gator	Ungrouted CMU (ASTM C-90)	4"	1-1/4"
		Concrete (min. 2,85 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3 ksi)	2-1/2"	1-3/8"
		Concrete (min. 3,35 ksi)	2-1/2"	1-3/4"

• MIN OF 3 THREADS BEYOND THE METAL-SUBSTRATE.

DESIGN PRESSURE RATING	IMPACT RATING
VARIABLES, SEE SHEETS 4 & 5	NOT RATED FOR MISSILE IMPACT RESISTANCE

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Revision
A) UPDATED TO NEW
FBC, ADDED ANCHOR
TYPE, REVISED TABLES
1.4 & 6 - JR - 10/22/20

NOLOGY DRIVE
FL 34275
529
FL 34274
600

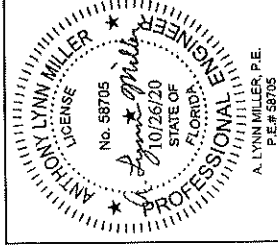


GENERAL NOTES

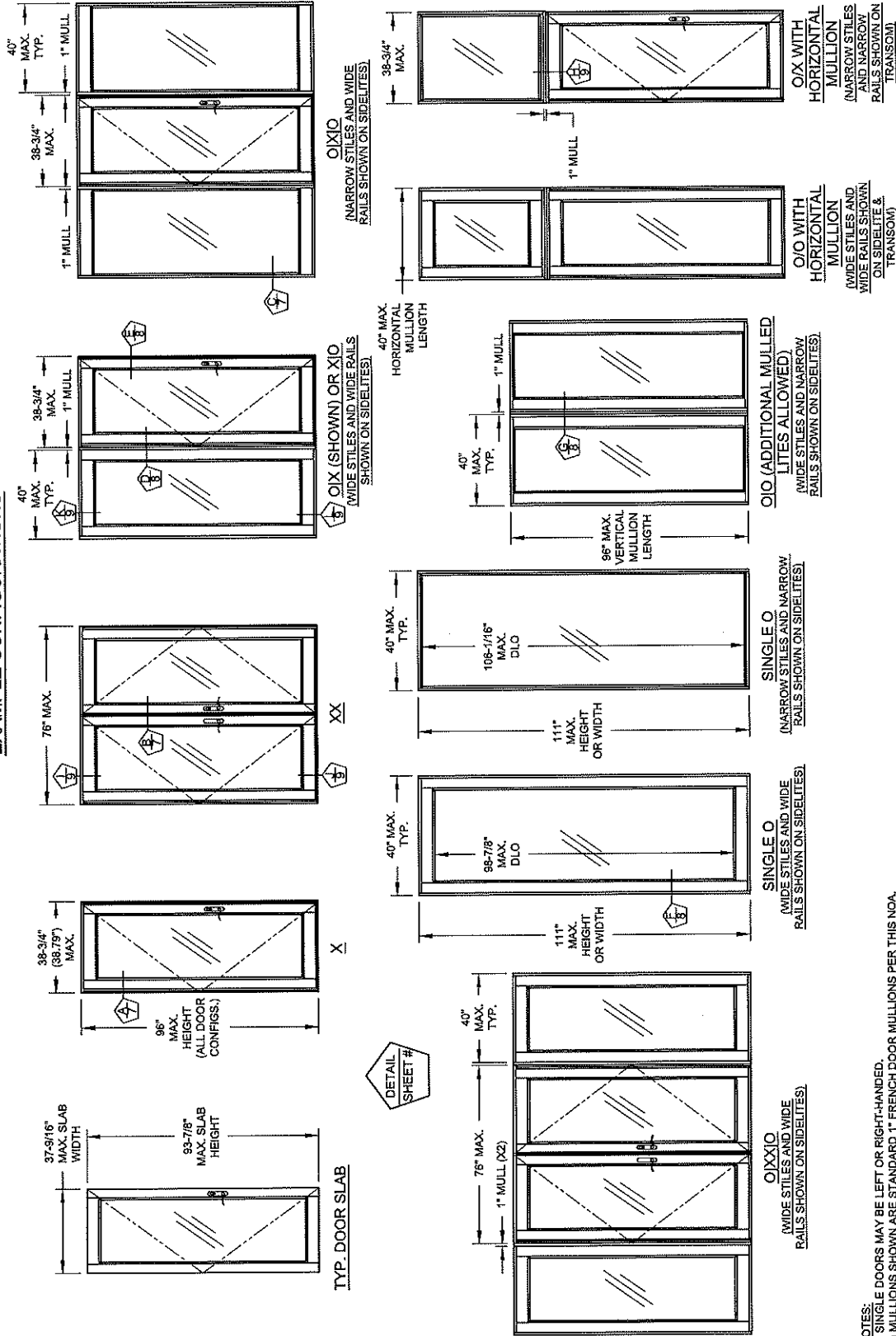
DOOR AND SLT/TR

By J ROSOWSKI

By J ROSOWSKI



EXAMPLE CONFIGURATIONS

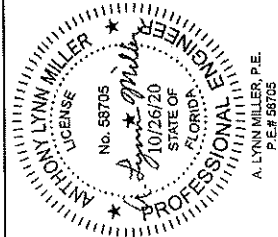
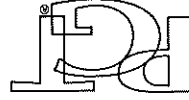


- NOTES:
- 1) SINGLE DOORS MAY BE LEFT OR RIGHT-HANDED.
 - 2) MULLIONS SHOWN ARE STANDARD 1" FRENCH DOOR MULLIONS PER THIS NOA.
 - 3) MULLED CONFIGURATIONS NOT SHOWN MAY BE POSSIBLE USING OTHER MULLION TYPES, SEE SEPARATE NOA.
 - 4) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
 - 5) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SL7TR OR MULLED ASSEMBLY.
 - 6) ADDITIONAL CONFIGURATIONS USING THE 1" FRENCH DOOR MULLION ARE POSSIBLE, USE THE ABOVE DRAWINGS AS A REFERENCE FOR SIZE LIMITATIONS.

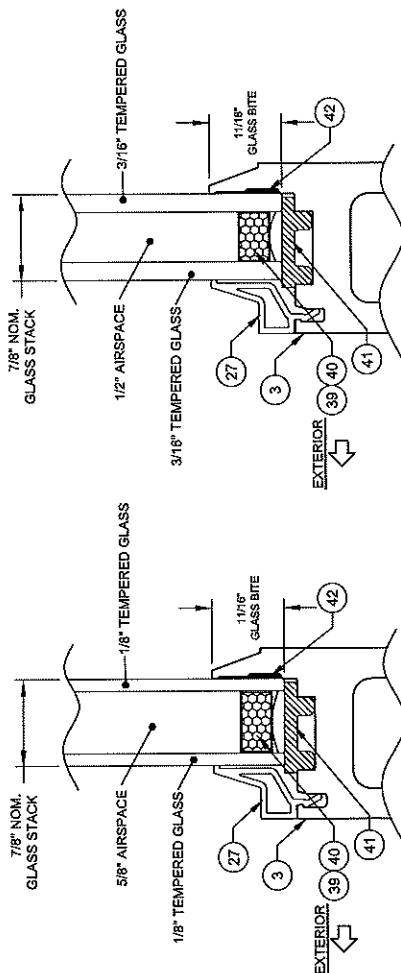
Revision

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Serial	Desc.	Title
FD-5456	NTS	EXAMPLE CONFIGURATIONS
Sheet	2 OF 11	VINYL FRENCH DOOR AND SL7TR
Drawn By	J ROSOWSKI	5/7/13
Check By		
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274 (941)-480-1600		

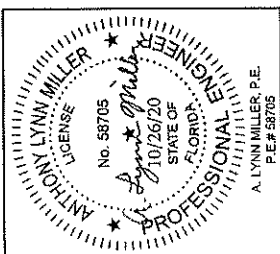


DOOR, SIDELITE & TRANSOM GLAZING DETAILS



GLASS TYPE 2

GLASS TYPE 1

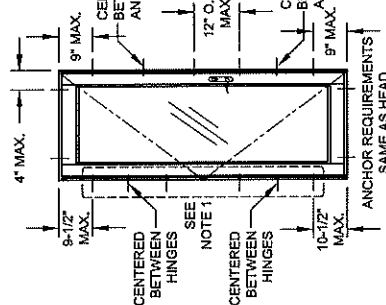


Sheet	1 of 1
Scale	FD-5455
NTS	3 OF 11
Drawn By	J. ROSOWSKI
Check By	
Date	5/7/13
VINYL FRENCH DOOR AND SLTTR	
(941) 480-1600	
P.O. BOX 1529	
N. VENICE, FL 34275	
1070 TECHNOLOGY DRIVE	

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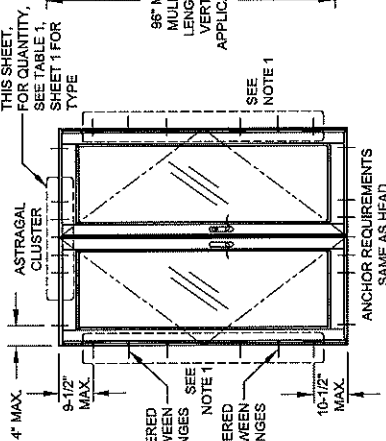
Revision

SINGLE DOOR INSTALLATION (X)



X

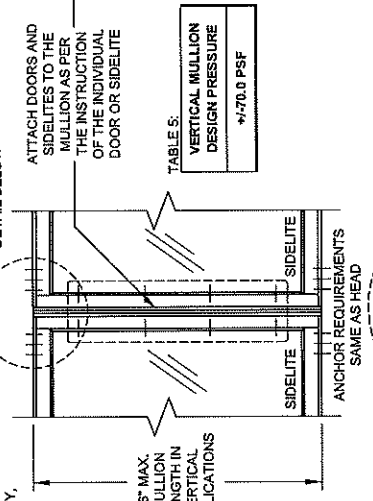
DOUBLE DOOR INSTALLATION (XX)



XX, (USING ASTRAGAL)

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

SEE MULLION CLUSTER
DETAIL BELOW



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

SEE MULLION CLUSTER
DETAIL BELOW

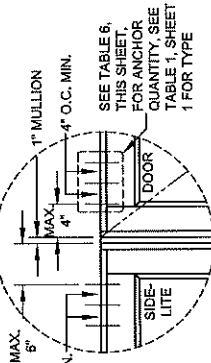
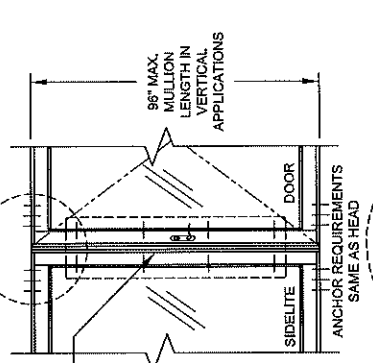


TABLE 3:
DOOR DESIGN PRESSURE

DOOR DESIGN PRESSURE	Glass Type 1	Glass Type 2
+/-50.0 PSF		
+/-70.0 PSF		

TABLE 4:
XX Door: Astragal Cluster Anchors Required @ Head & Sill

Door Height (in)	Door Width (in)	Anchor Group A-D	Anchor Group A-B	Anchor Group C-D	Anchor Group A-B	Anchor Group C-D	Anchor Group A-B	Anchor Group C-D
80	48	4	4	4	4	4	4	4
80	60	4	4	4	4	4	4	4
80	72	4	4	4	4	4	4	4
80	76	4	4	4	4	4	4	4

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

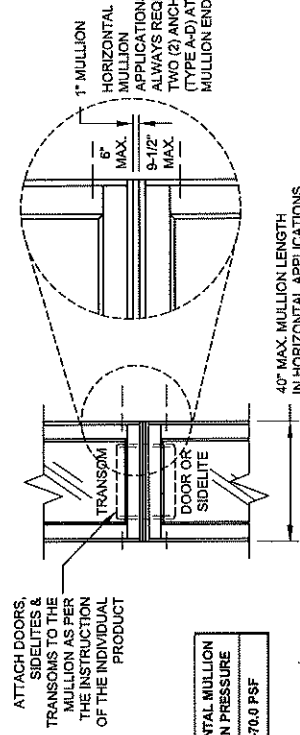


TABLE 7:
HORIZONTAL MULLION
DESIGN PRESSURE

HORIZONTAL MULLION DESIGN PRESSURE
+/-70.0 PSF

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274
(941) 480-1600

VINYL FRENCH DOOR AND SLITTR

DESIGN PRESSURE 1

FD-5455
NTS
4 OF 11
Rev A

5/7/13

ROSOWSKI

ANTHONY LYNN MILLER
LICENSE
No. 58765
10/26/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E. #58765

TABLE 6:
Anchors Required for a Vertical Mullion (each mullion end)

Mullion Height (in)	Door or Sidelite Transom Width (in)	Anchor Group A-D	Anchor Group A-B	Anchor Group C-D	Anchor Group A-B	Anchor Group C-D	Anchor Group A-B	Anchor Group C-D
80	12	1	2	1	2	1	2	1
80	24	1	2	1	2	1	2	1
80	32	1	2	1	2	1	2	1
80	36-3/4	1	2	1	2	1	2	1
80	40	1	2	1	2	1	2	1
96	12	1	2	1	2	1	2	1
96	24	1	2	1	2	1	2	1
96	32	1	2	1	2	1	2	1
96	36-3/4	1	2	1	2	1	2	1
96	40	1	2	1	2	1	2	1

INSTRUCTIONS:
1) DOOR HINGE JAMBS OF ALL HEIGHTS TO ALWAYS BE ANCHORED WITH SIX ANCHORS. SHEET 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 NUTS OR 3/16" FLATHEAD U-BOLTS 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 NOA.
4) THE LOWEST COMPONENT DP IS TO BE THE OVERALL ASSEMBLY DP.
5) FRENCH DOOR MULLION IS LIMITED TO 96" IN VERTICAL APPLICATIONS AND 40" IN HORIZONTAL APPLICATIONS.
6) NARROW OR WIDE STILES AND RAILS MAY BE MIXED WITHIN THE SAME SIDELITE/TRANSOM OR MULLED ASSEMBLY.
7) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.

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Revision
A) ADDED ANCHOR GROUP A TO
TABLES 4 & 6.
JR - 10/22/20

SIDELITE/TRANSOM INSTALLATION (O)

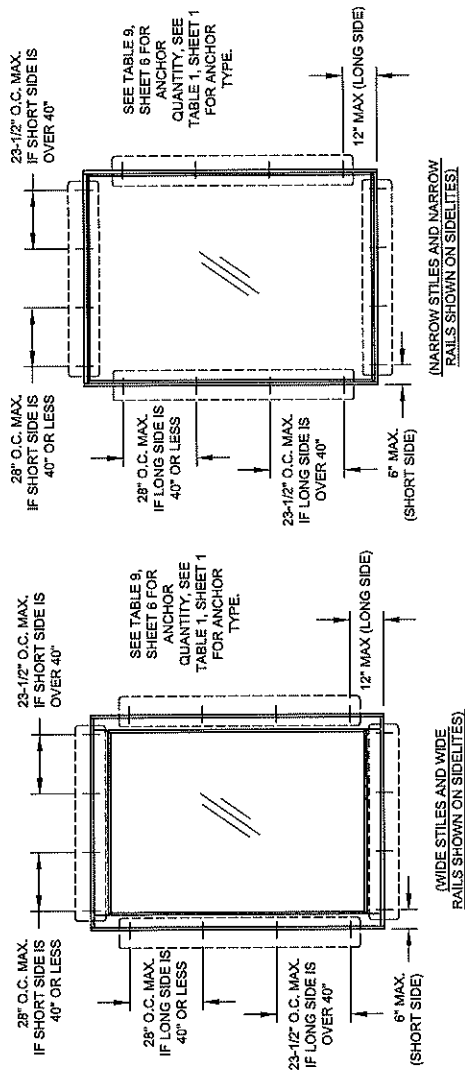


TABLE 8:

WINDOW DESIGN PRESSURE	All Glass Types
+/-70.0 PSF	

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.

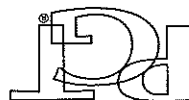
TABLE 8:

Short Side (in)		Sidelite/Transom Anchor Quantity																Long Side (in)	
Short Side	Long Side	63-3/16	65-3/8	68	70	72	76	78	82	84	88	92	96	98	104	108	111	Long Side	Long Side
		Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A	Anchor Group A		
24	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
24	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D
28	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
28	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D
32	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
32	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D
36	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
36	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D
36-3/4	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
36-3/4	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D
40	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Anchor Group A	Anchor Group A
40	Short Side	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	Anchor Group B-D	Anchor Group B-D

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VINYL FRENCH DOOR AND SLTTR

Date

6/7/13

Drawn By

J. ROSOWSKI

Sheet

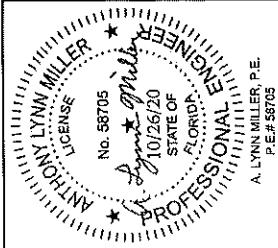
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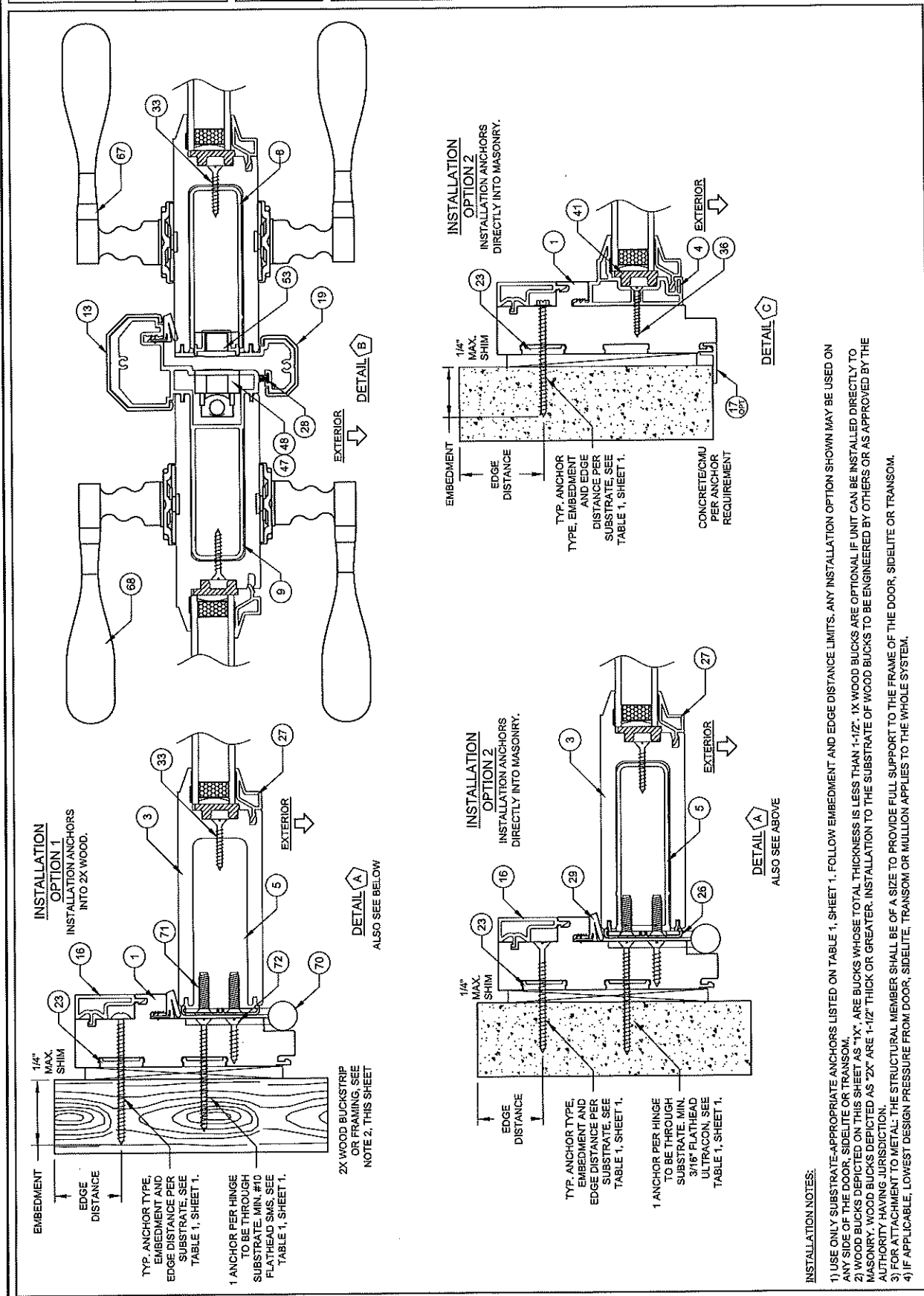


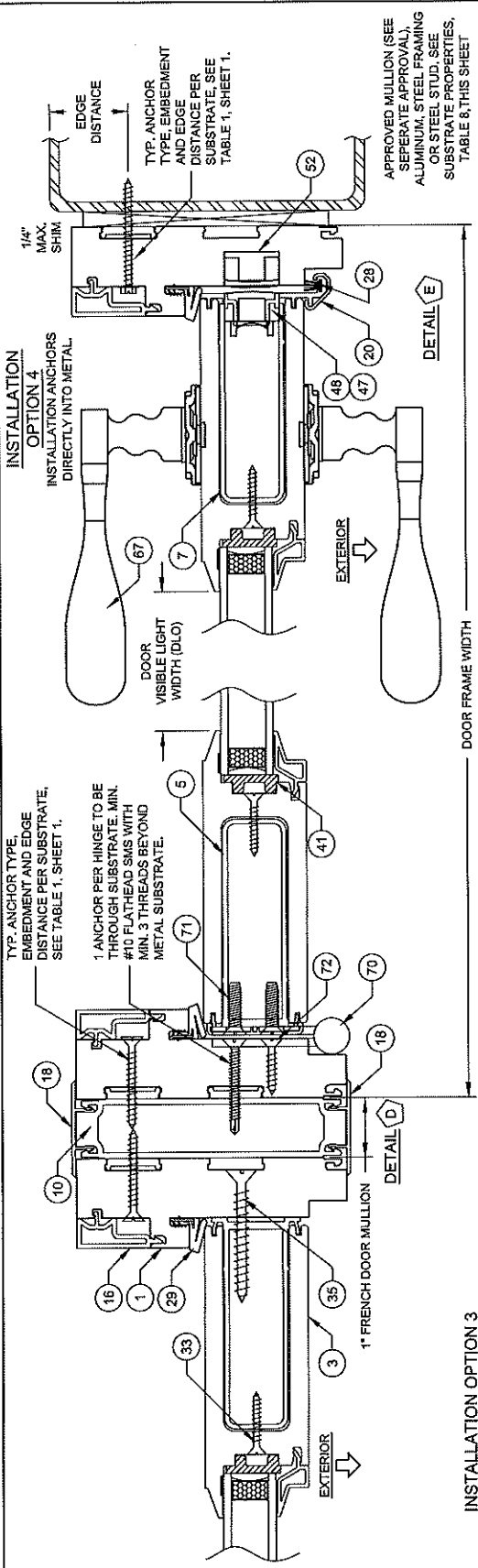
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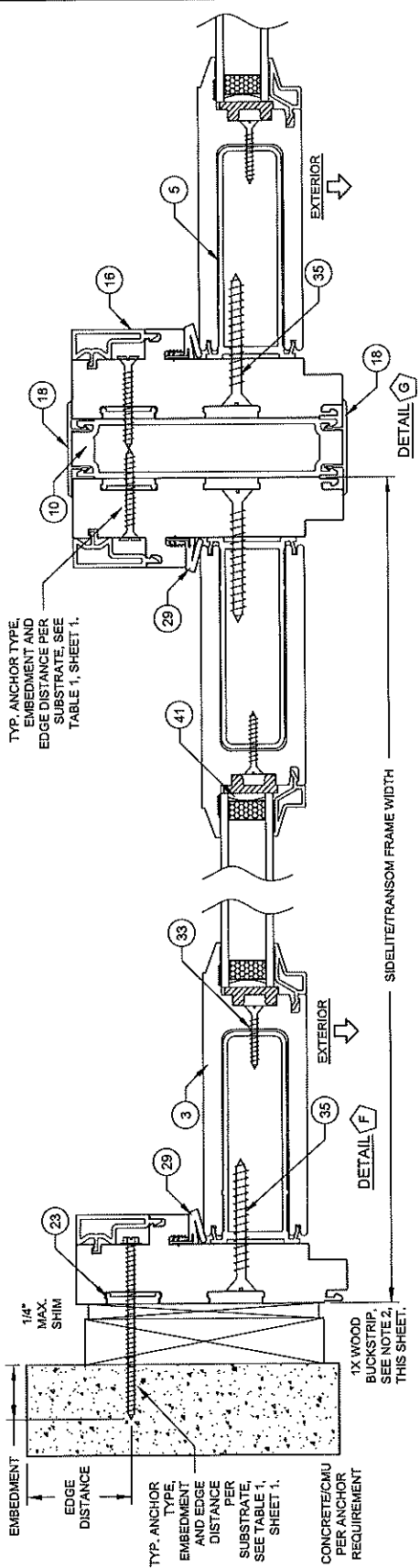
FD-5455
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6 OF 11
NTS
Revised
5/7/13
J. ROSOWSKI
INSTANTANEOUS
VINYL FRENCH DOOR AND SLT/TR

ANTHONY LYNN MILLER
No. 58705
10/26/20
STATE OF
FLORIDA
PROFESSIONAL
ENGINEER
P.E.# 58705





INSTALLATION OPTION 3
INSTALLATION ANCHORS THROUGH
1X WOOD BUCKSTRIP INTO MASONRY.



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 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.

PGI

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VINYL FRENCH DOOR AND SLT/TRANSOM

INSTALLATION 2

FD-5456 NTS
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VINYL FRENCH DOOR AND SLT/TRANSOM

INSTALLATION 2

FD-5456 NTS
7 OF 11
FPA-5455.1
Rev. A

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INSTALLATION 3

FD-5455 NTS 8 OF 11

FPA-5455.1

REV. A

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INSTALLATION 3

FD-5455 NTS 8 OF 11

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REV. A

INSTALLATION OPTION 3
INSTALLATION ANCHORS THROUGH
1X BUCKSTRIP INTO MASONRY.

INSTALLATION OPTION 2
INSTALLATION ANCHORS DIRECTLY INTO MASONRY.

INSTALLATION OPTION 1
INSTALLATION ANCHORS INTO 2X WOOD.

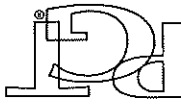
INSTALLATION NOTES:

- 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.

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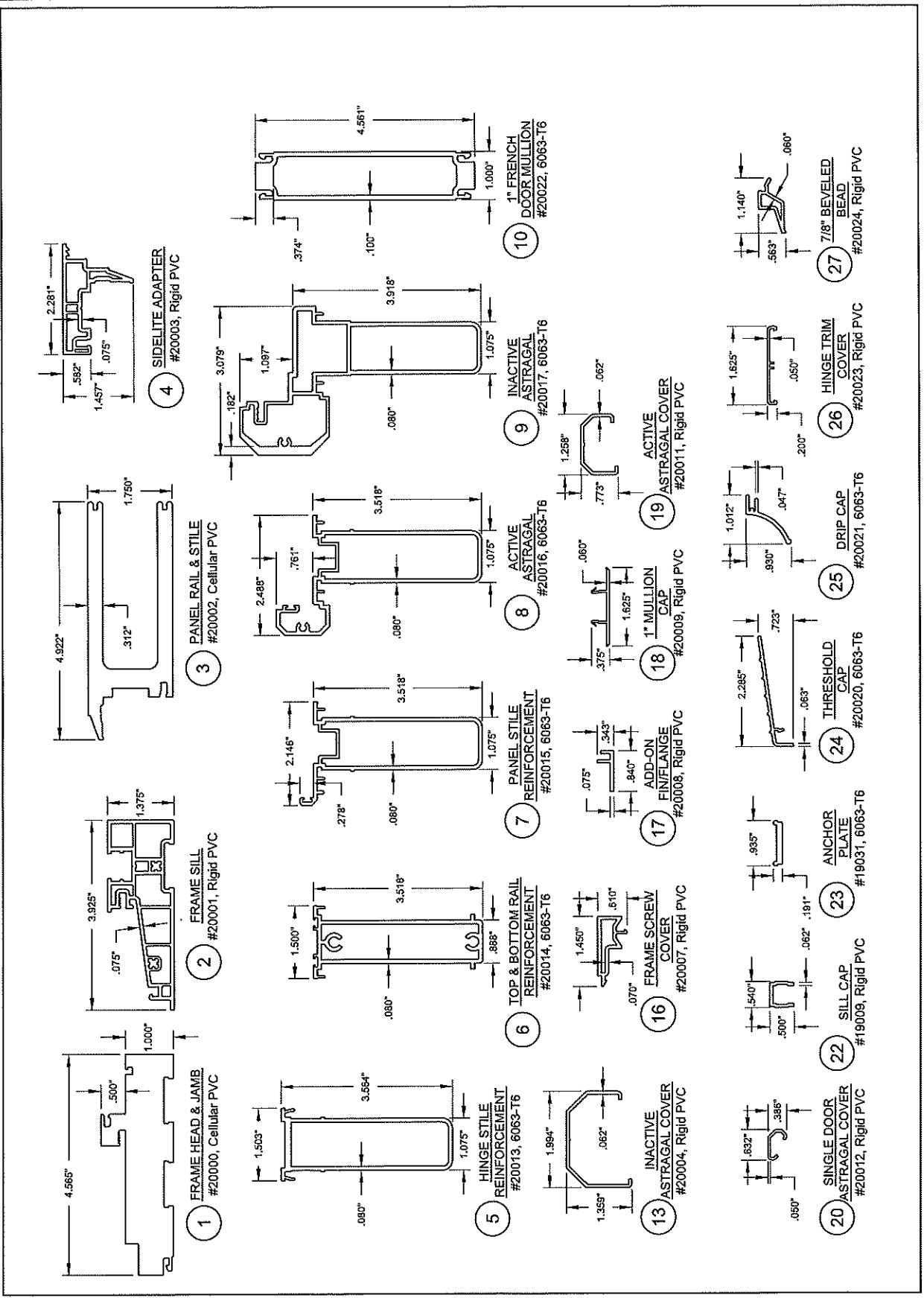
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VINYL FRENCH DOOR AND SLTTR
5/7/13
J ROSOWSKI
EXTRUSIONS
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NTS
9 OF 11
FPA-5455.1
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ANTHONY LYNN MILLER
No. 58705
10/25/20
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.P. 58705

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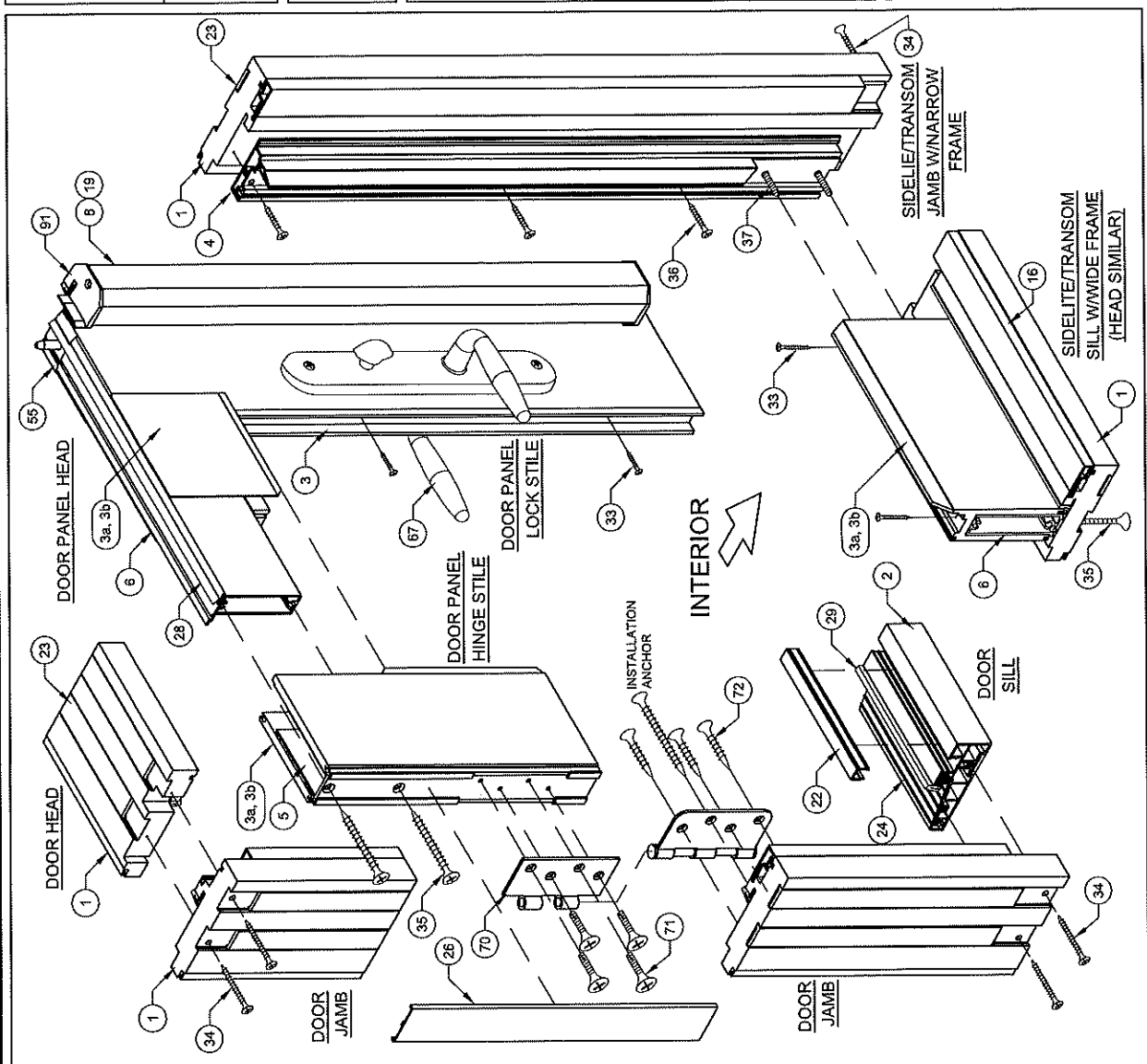
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P.O. Box 1529
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VINYL FRENCH DOOR AND SLTTR
Date: 5/7/13
Drawn by: J. ROSOWSKI
Sheet: NTS
Scale: 1/8" = 1'-0"

FD-5455
CORNER DETAILS AND BOM
No. 58705
A

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ANTHONY LYNN MILLER
Professional Engineer
No. 58705
10/26/20
STATE OF FLORIDA
P.E. # 58705



#	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	20003	Hinge Stile Reinforcement	Alum., 6063-T6
6	20013	Panel Rail Reinforcement	Alum., 6063-T6
7	20015	Panel Sill Reinforcement	Alum., 6063-T6
8	20016	Active Astragal	Rigid PVC
9	20017	Inactive Astragal	Rigid PVC
10	20022	1" French Door Mullion	Alum., 6063-T6
11	20004	Inactive Astragal Cover	Rigid PVC
12	20007	Screw Cover	Rigid PVC
13	20008	Add-on Fin/Flange	Rigid PVC
14	20009	1" Mullion Cap	Rigid PVC
15	20011	Active Astragal Cover	Rigid PVC
16	20012	Single Door Astragal Cover	Rigid PVC
17	20018	Sill Screw Cover	Rigid PVC
18	19031	Anchor Plate	Alum., 6063-T6
19	20020	Threshold Cover	Rigid PVC
20	20021	Drip Cap	Rigid PVC
21	20023	Hinge Trim Cover	Rigid PVC
22	20024	7/16" Beveled Bead	Rigid PVC
23	16713	Fin Weatherstrip	Stainless Steel
24	7144FP1410XW	Frame-to-Wide Slab Screw, #14 X 1-1/2" Phil. FH	Stainless Steel
25	75101X	Frame-to-Narrow Slab Screw, #10 X 1" Phil. FH	Stainless Steel
26	78X1F1410	Reinforcement Screw, #8 X 1" Phil. FH	Stainless Steel
27	71022FPAX	Frame Assembly Screw, #10 X 2" Phil. FH	Stainless Steel
28	7144FP1410XW	W-W Slab Assembly Screw, #14 X 1-1/2" Phil. FH	Stainless Steel
29	75101X	N-N Slab Assembly Screw, #10 X 1" Phil. FH	Stainless Steel
30	714202X.25	N-W Slab Assembly Screw, #14 X 2-1/4" Phil. FH	Stainless Steel
31	DuraSeal Spacer		EPDM
32	62889	SuperSpacer	Silicone
33	720026	Setting Block, (Duro = 85 +/- 5)	EPDM
34	42	Backbedding: Dow-791, 983, 995 or GE-7700	Silicone
35	43	Argon Gas	
36	6H-L5140	Hot Melt Butyl	
37	47-73	see Hardware BOM, Table 9, Sheet 12	
38	20033	Inactive 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
 SLTTR FRAME HEIGHT - 12.1 = DLO HEIGHT
 SLTTR FRAME WIDTH - 12.1 = DLO WIDTH
 WHEN USING PART # 4: (NARROW RAILS OR STILES)
 SLTTR FRAME HEIGHT - 4.9 = DLO HEIGHT
 SLTTR FRAME WIDTH - 4.9 = DLO WIDTH

HARDWARE DETAILS & LOCATIONS

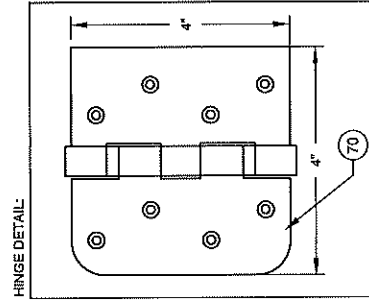
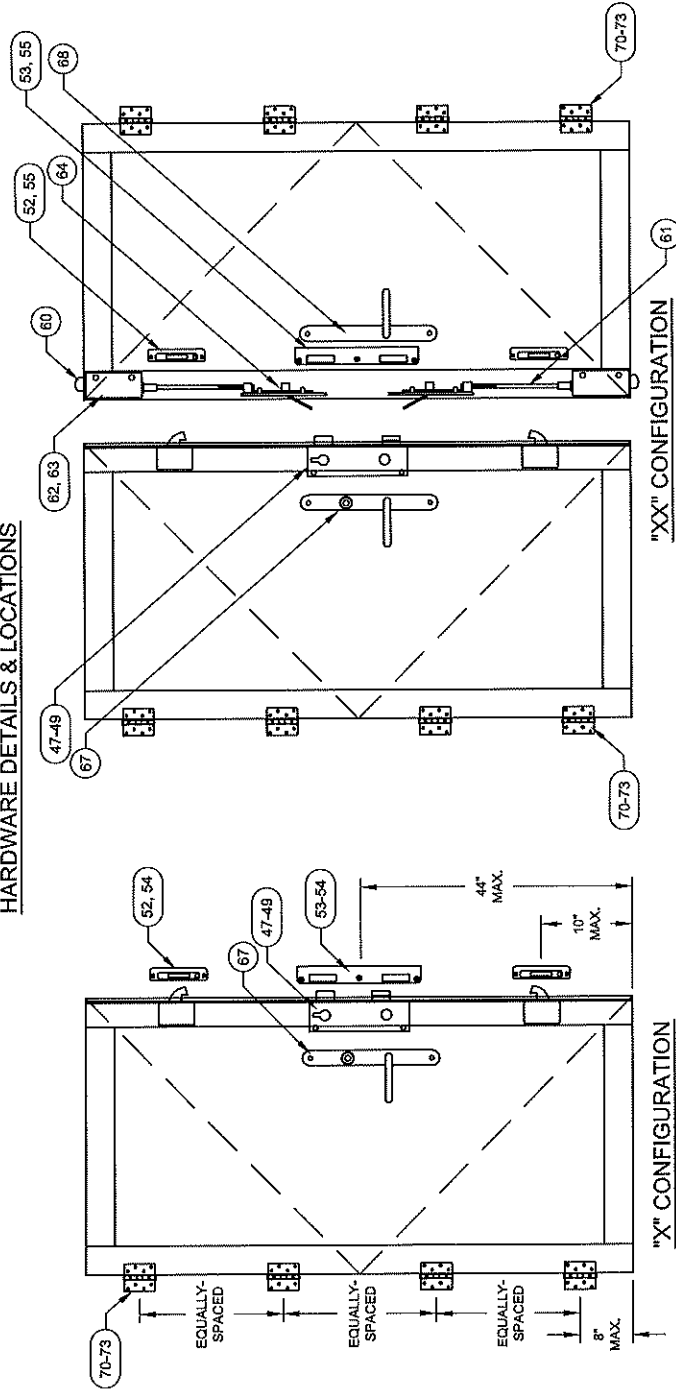


TABLE 11:

#	PGT Part #	Description	Material
47	666032701	P3000 3-Pt Rhino Lock (68")	
48	666032702	P3000 3-Pt Rhino Lock (over 68")	
49	71032X1FFFX	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	75101X	Strike Plate Screw: (X): #10 X 1" Phil. FH	410 S.S.
55	78X12FFHUX	Strike Plate Screw: (XX): #8 X 1/2" Phil. FH	410 S.S.
60	78S1202	Flush Bolt (XX)	
61	7803725	Flush Bolt Rod (XX)	
62	420034	Flush Bolt Guides (XX)	
63	7832X12FFXP	Flush Bolt Screws: 8-32 X 1/2" Phil. FH	
64	48033N	Guide Pin (XX)	
65	78036	Flush Bolt Strike Plate (XX)	Stainless Steel
66	7832X12FFXP	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	71032X1FFPFX	Hinge, Slab Screw: #10-32 X 1" Phil FH	Stainless Steel
72	75101X	Hinge, Frame Screw: #10 X 1" Phil. FH	Stainless Steel

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ANTHONY LYNN MILLER

PROFESSIONAL ENGINEER

STATE OF FLORIDA

10/26/20

No. 58705

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