Engineering Evaluation Report # 160LM-06162026-PGT

Prepared by:
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(941) 480-1600
Registration Number: #29296

Manufacturer:
PGT Industries
3400 Precision Drive.
N. Venice, FL 34275

Product Description:
FD160 Series Impact-resistant Aluminum French Door, PW/Sidelite and Transom, (LM & SM); FL Approval #331

Compliance:
The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the “High Velocity Hurricane Zone” (HVHZ).

Supporting Technical Documentation:
1. Approval document: drawing number 160FPA-LM-PGT, signed and sealed by A. Lynn Miller, P.E.
2a. Test Report Nos. ATLSF-1218.01-12, signed and sealed by Henry Hatem, P.E.; American Test Lab of S Florida
2b. Test Report Nos. CTLA 3056WC, signed and sealed by Ramesh Patel, P.E.; Certified Testing Lab
2c. Test Report Nos. FTL 7897, FTL 17102, FTL-20-2107.1 thru .4, FTL-20-2108.1 thru .5, NOK-0145, NOK-0146 , NOK-0148 and NOK-0151 signed and sealed by Idalmis Ortega, P.E.; Fenestration Testing Laboratory, Inc.

TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3a. Calculations, signed and sealed by Javad Ahmad, P.E. dated 10/06/14, 05/19/15 (rev. 08/04/15) & 11/13/17
3b. Calculations, signed and sealed by Lynn Miller, P.E., dated 07/14/20

4. Miami-Dade RER Product Control Section NOA’s; Various interlayers as noted.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
• This product is rated to be used in the HVHZ.
• This product is impact resistant and does not require impact protection in wind borne debris regions.
• Frame and panel material to be extruded Aluminum.
• Units must be installed in accordance with approval document.



A. LYNN MILLER, P.E.
P.E.# 58705

FLORIDA PRODUCT APPROVAL #XX

SERIES 160 ALUMINUM, IMPACT-RESISTANT, OUTSWING DOOR WITH SIDELITES

DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
SEE TABLE 1 - A	EQUAL OR THAN DESIGN PRESSURE UNLESS NOTED OTHERWISE	RATED FOR LARGE & PANEL MISSILE IMPACT RESISTANCE

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ)

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE A, SHEET 4. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. (3) 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.

4) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED: NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107. (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH 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

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE B. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

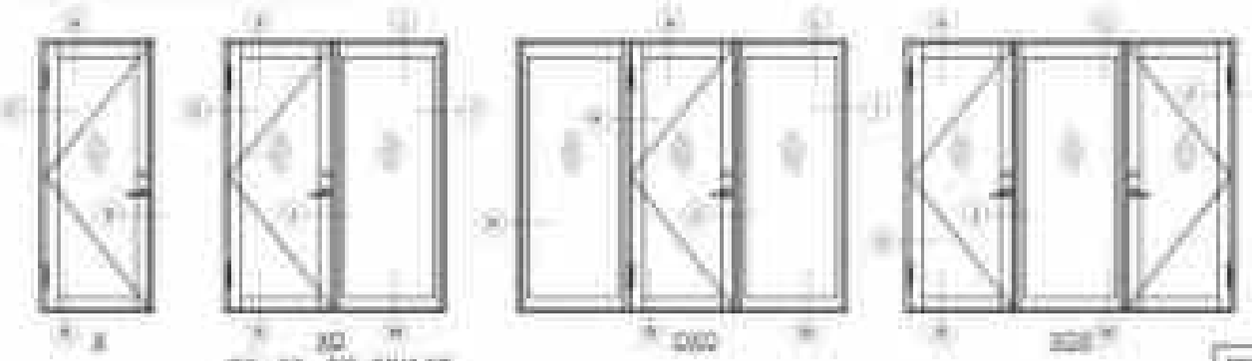
6) MAX. 1/2" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR OR SIDELITE.

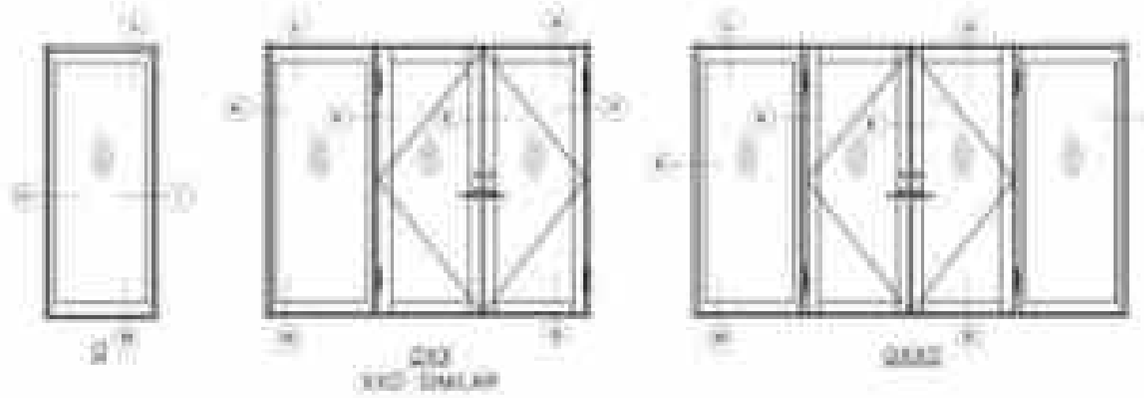
7) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN (ASD)

8) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS 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 UNLESS OTHERWISE ADOPTED STANDARDS FOR CORROSION RESISTANCE.

9) EGRESS MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE. THE MAXIMUM FRAME AREA MUST NOT EXCEED THE TESTED FRAME AREA OF 106.3 SQ. FT.

EXAMPLE CONFIGURATIONS:





INSTRUCTIONS:

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2: FOR SINGLE (X) & DOUBLE (XX) DOORS SEE TABLE 1: 4A, 4B, 5A OR 5B FOR DESIGN PRESSURE.

STEP 3: FOR SIDELITES & STANDALONE WINDOWS (X), SEE TABLE 2 FOR DESIGN PRESSURE.

STEP 4: FOR SIDELITE MULLED TO DOORS, SEE TABLE 3 FOR DESIGN PRESSURE.

STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

GENERAL NOTES
EXAMPLE CONFIGS 1
ANCHOR ELEVATIONS 2, 3
DP & ANCHOR TABLES 4
ANCHOR ELE. DP TABLE
SINGLE POINT LOCK 5, 6
GLAZING DETAILS 7
VERT. DOOR SECTIONS 8
HORIZ. DOOR SECTIONS 9
SIDELITE SECTIONS 10
LOCK DETAILS, ACTIVE 11
LOCK DETAILS, INACTIVE 12
SINGLE POINT LOCK ACT. 13
SINGLE POINT LOCK INA. 14
EXTRUSIONS, BOM 15
CORNER ASSEMBLY 16

NO CHANGES THIS SHEET

NO.	DESCRIPTION	DATE
1		
2		
3		

PGT INDUSTRIES

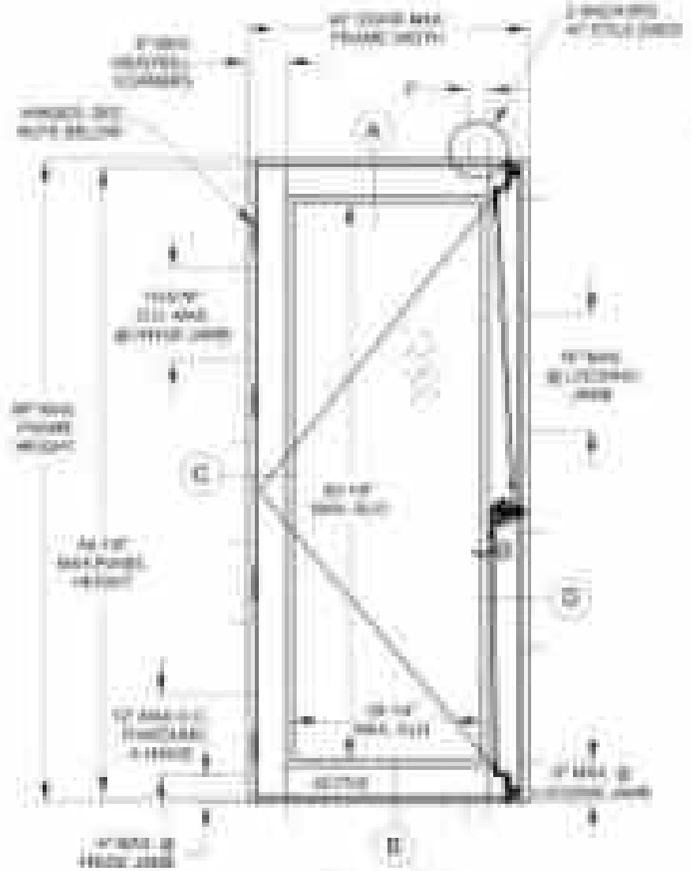
ALUMINUM OUTSWING DOOR (160)

NOTES & CONFIGURATIONS

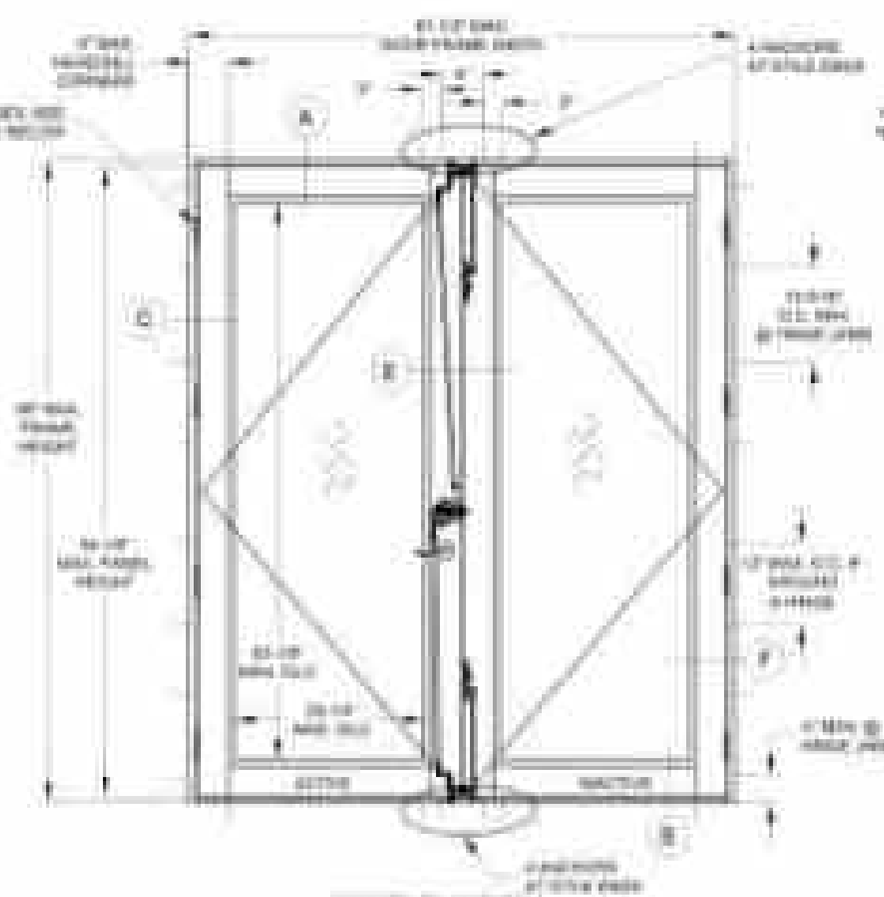
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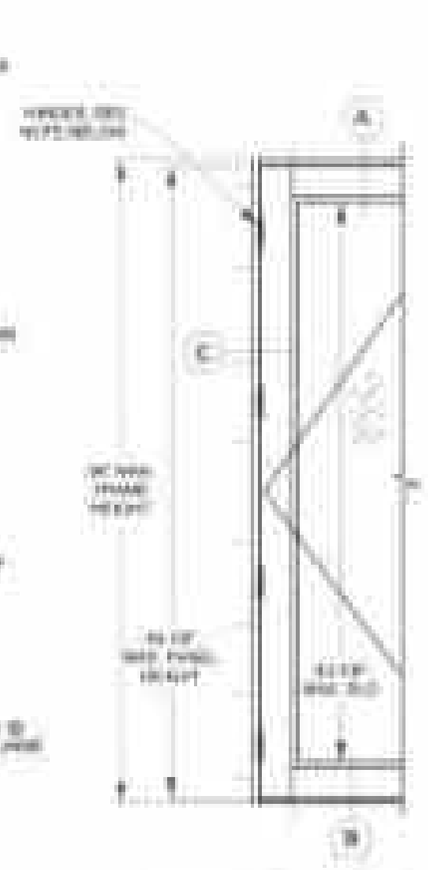
SHEET NO.



X ELEVATION
WITH STANDARD THRESHOLD



XX ELEVATION
WITH STANDARD THRESHOLD



XXX ELEVATION
WITH SADDLE (ADA) THRESHOLD

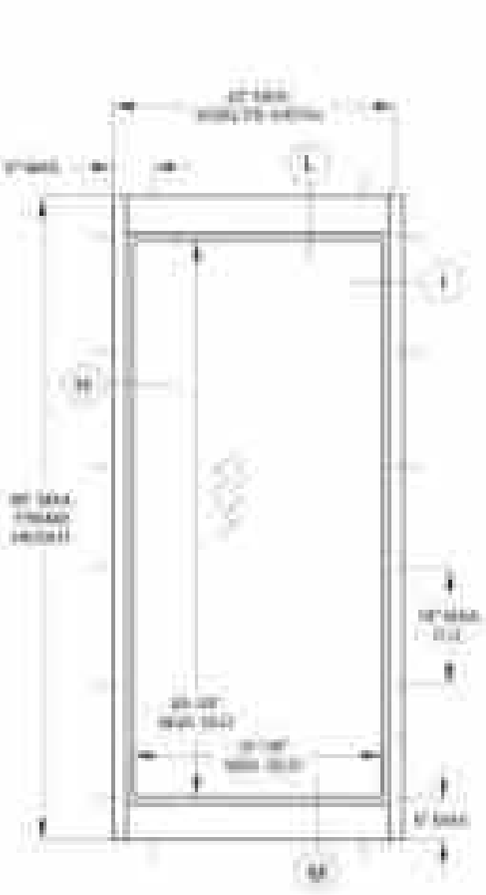
DOOR SLD DIMENSIONS:
SLD HEIGHT = FRAME HEIGHT - 12-0"
SLD WIDTH (X DOORS) = FRAME WIDTH - 13.75"
SLD WIDTH (XX DOORS) = (FRAME WIDTH - 29") / 2

NOTES:
1) THE LOWEST DESIGN PRESSURE VALUES FROM DOOR SERIES OR MULLION TABLES WILL APPLY TO ENTIRE SYSTEM.

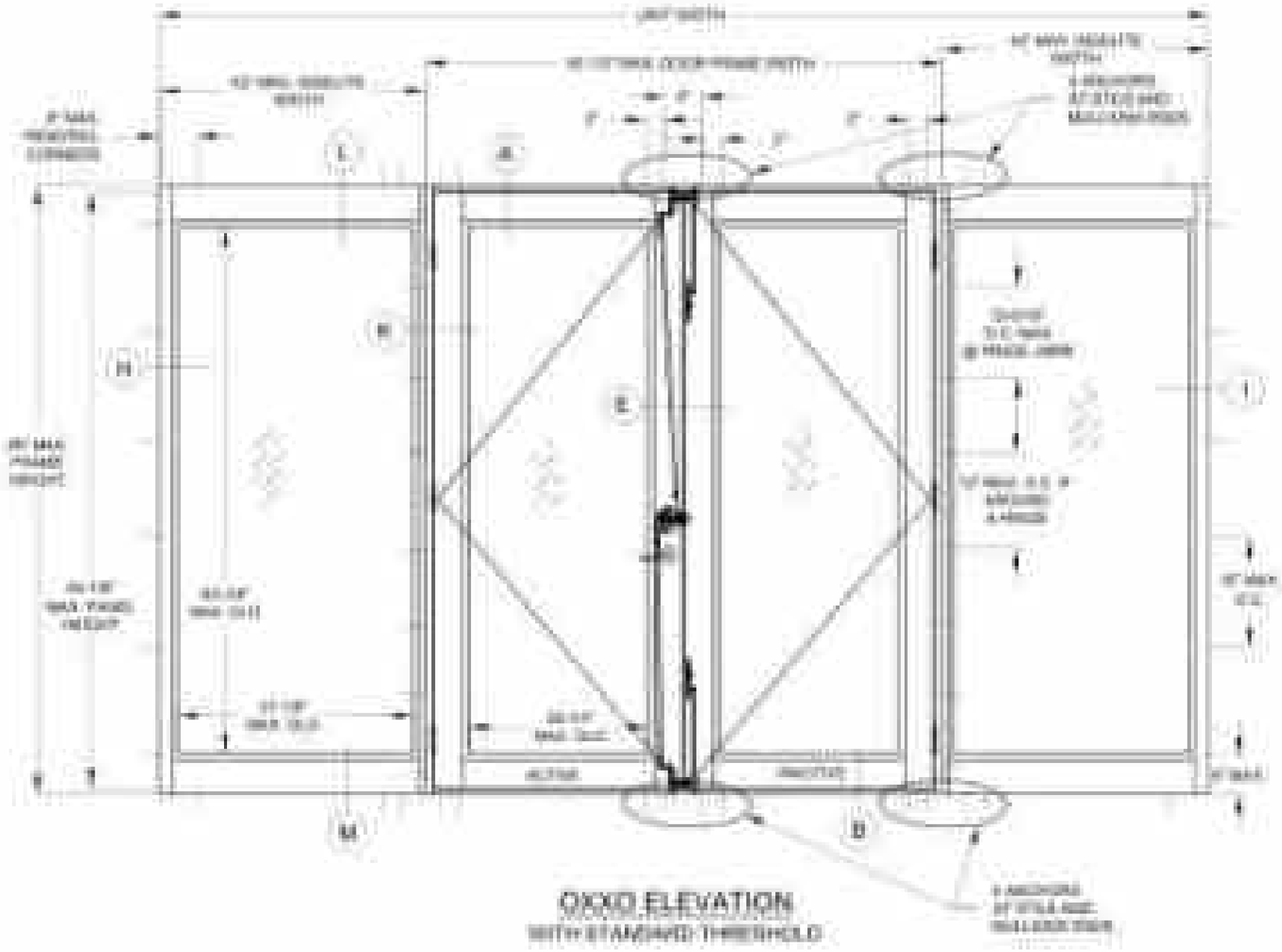
HINGES:
4" X 4-1/2" BUTT HINGES
TOP AND BOTTOM HINGES AT 6-7/8" FROM EACH END
INTERMEDIATE HINGES EQUALLY SPACED
(3) HINGES PER PANEL UP TO 23" PANEL WIDTHS (STD. THRESHOLD ONLY)
(4) HINGES PER PANEL ABOVE 35" PANEL WIDTHS (STD. THRESHOLD)
(4) HINGES PER PANEL ALL WIDTHS (SADDLE THRESHOLD)

NO CHANGES THIS SHEET | 5-15-25 | D

PGT | ALUMINUM OUTSWING DOOR (LAM) | DOOR ELEVATION | FD100 | 06 JAN 14



O ELEVATION



OXXO ELEVATION
WITH STANDARD THRESHOLD

SIDELITE DIMENSIONS:
SLD HEIGHT = FRAME HEIGHT - 12 3/16"
SLD WIDTH = SIDELITE WIDTH - 8" STAND ALONE SIDELITE ONLY
SLD WIDTH = SIDELITE WIDTH - 4 3/16" SIDELITE TO DOOR ONLY

NOTES:
1) THE LOWEST DESIGN PRESSURE VALUES FROM DOOR, SIDELITE OR MULLION TABLES (SHEET 4, 5) WILL APPLY TO ENTIRE SYSTEM

NO CHANGES THIS SHEET	10
	9
	8
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	3
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	1
REVISIONS	

PGT INNOVATIONS

ALUMINUM OUTSWING DOOR (SLIDING PATH)

SIDELITE ELEVATION

TD150

SHEET 3 OF 10

PRODUCED BY A CPSC MEMBER COMPANY

TABLE 1:

DOOR DESIGN PRESSURE (DP)

Glass Types (A1, A2, A3, B, C2, C3, & C3)	Frame Height (ft-in) up to 99"				
	Reinforced		Extruded		
	ESD	ADA	BLDH	CC	BLDH
24" 1/4" (24)	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
42" (42)	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
72" (72)	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
81-1/2" (82)	[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]

LOCK KEYS:
BLH = BLACK/LARGE
CC = COPPER CREEK
BLDH = BALDWIN

DESIGN PRESSURE NOTES:
1) THE LOWEST VALUE FROM TABLES 1 TO 3 SHALL APPLY TO ENTIRE SYSTEM.
2) WATER TEST PRESSURE @ 15% OF THE LOWEST POSITIVE PRESSURE OF THE ENTIRE SYSTEM.
3) FLUSH BOLTS AND LOCKS MUST BE ENGAGED TO HEAD AND SILL DURING PERIODS OF HURRICANE WARNING.
4) SADDLE SILL NOT APPROVED FOR WATER INFILTRATION RESISTANCE. LIMITS MAX. DESIGN LOADS TO +/- 70.0 PSF.

TABLE 2:

SIDELITE OR WINDOW DESIGN PRESSURE (DP)

	Frame Height						
	84"		96"		96"		
	Glass Types		Glass Types		Glass Types		
	A1, A2, A3, B, C1, C2 & C3	A1, A2, A3, B & C1	C2	C3	A1, A2, A3, B & C1	C2	C3
24"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
30"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
36"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
42"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]
48"	+/-[illegible]	+/-[illegible]	+/-[illegible]	+/-[illegible]	-	+/-[illegible]	+/-[illegible]
60"	+/-[illegible]	-	+/-[illegible]	+/-[illegible]	-	+/-[illegible]	+/-[illegible]

TABLE 3:

MULLION DESIGN PRESSURE (DP)

Boundary Width	Clear Panel Height	Frame Height		
		84"	96"	96"
24"	Up To 28'-0"	+/-[illegible]	+/-[illegible]	+/-[illegible]
30"	Up To 28'-5/8"	+/-[illegible]	+/-[illegible]	+/-[illegible]
33"	Up To 34'-3/4"	+/-[illegible]	+/-[illegible]	+/-[illegible]
36"	Up To 35'-5/8"	+/-[illegible]	+/-[illegible]	+/-[illegible]
5'-1/8"	Up To 34'-5/8"	+/-[illegible]	+/-[illegible]	+/-[illegible]
39"	Up To 28'-3/4"	+/-[illegible]	+/-[illegible]	+/-[illegible]
42"	Up To 28'-5/8"	+/-[illegible]	+/-[illegible]	+/-[illegible]

TABLE 4:

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	5/16" Dia. Wedge Anchor	Concrete (f'c=2,500 PSI)	3"	2-1/2"
	1/4" Dia. Wedge Anchor	Concrete (f'c=2,500 PSI)	3"	2-1/2"
B	5/16" Dia. Wedge Anchor	Concrete (f'c= 2,500 PSI)	2-1/2"	2-1/2"
	1/4" Dia. Wedge Anchor	Concrete (f'c= 2,500 PSI)	2-1/2"	2-1/2"
C	1/4" Dia. Tapcon (Load Table)	Aluminum (min. 0.062" thick)	3/4"	7/8"
		Steel (min. 0.029" thick)	3/4"	7/8"

ANCHOR NOTES:
1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE FOR ANCHOR GROUP C.
2) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.
3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

NO CHANGES THIS SHEET 07-15-20

PRODUCT APPROVAL NUMBER	[illegible]
PRODUCT APPROVAL NUMBER	[illegible]
DRAWING NUMBER	[illegible]
SHEET NUMBER	[illegible]
DATE	06.30.20
SCALE	NTS

ALUMINUM OUTSWING DOOR (LAM)

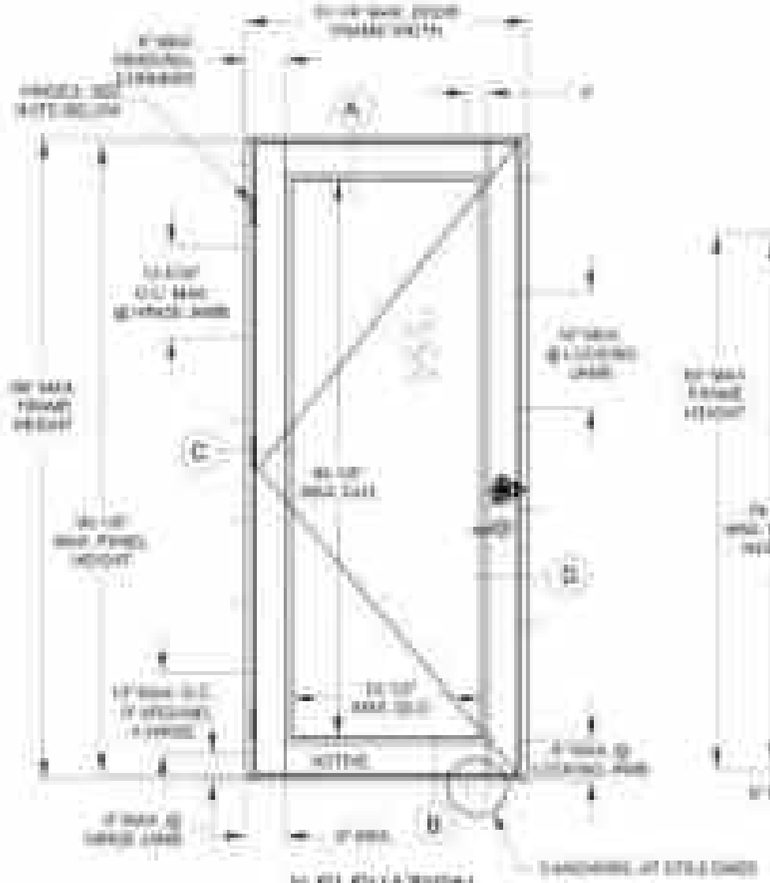
PGT INDUSTRIES

1070 PGT DRIVE
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(941) 480-1600

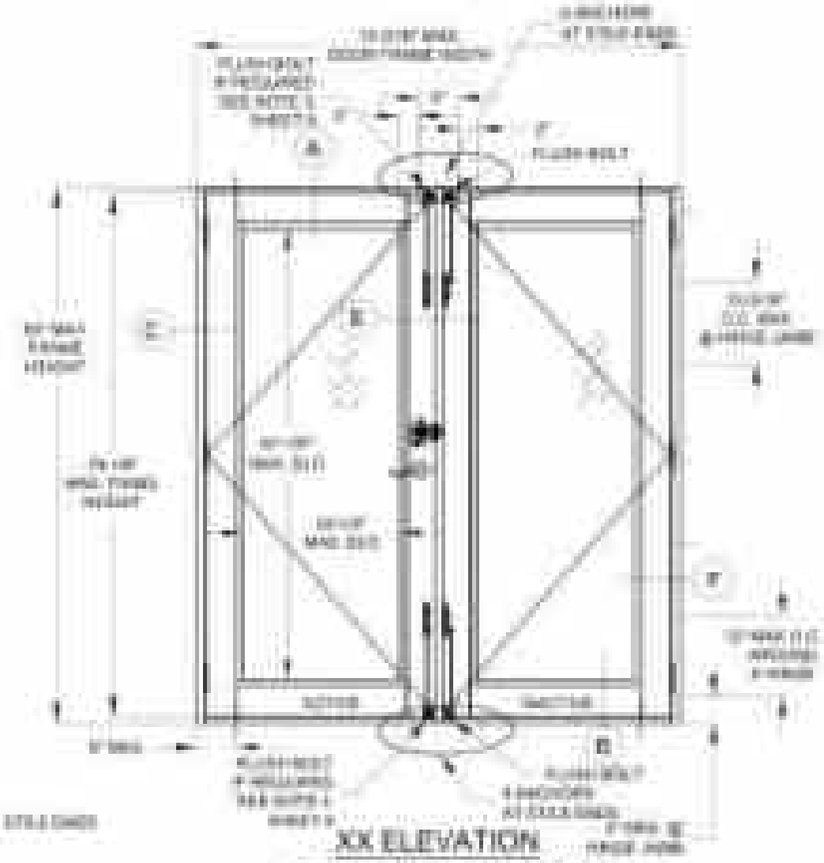
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STATE OF FLORIDA
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REGISTERED
PROFESSIONAL ENGINEER

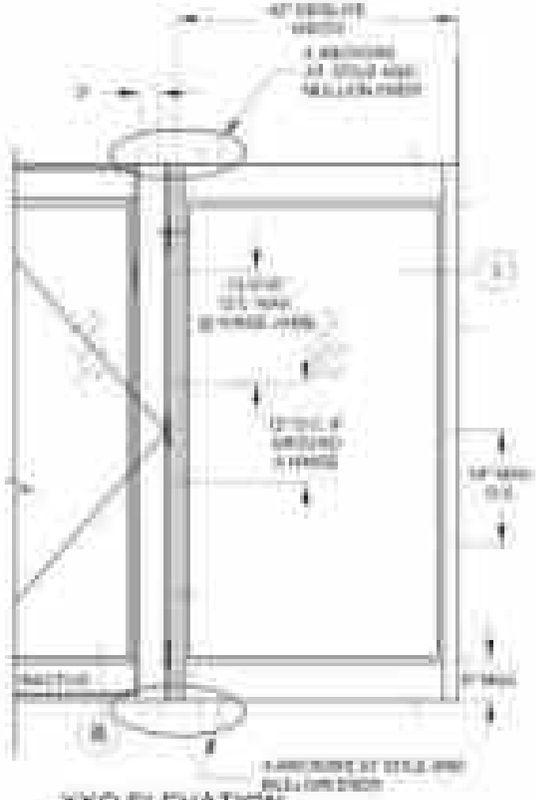
SINGLE POINT LOCK



X ELEVATION
WITH STANDARD THRESHOLD



XX ELEVATION
WITH STANDARD THRESHOLD



XXO ELEVATION
WITH STANDARD THRESHOLD

DOOR O.L.O. DIMENSIONS:
O.L.O. HEIGHT = FRAME HEIGHT - 12 0/8"
O.L.O. WIDTH (X DOORS) = FRAME WIDTH - 13 7/8"
O.L.O. WIDTH (XX DOORS) = (FRAME WIDTH - 33") / 2

HINGES:
1) 4" X 4-1/2" BUTT HINGES.
2) TOP AND BOTTOM HINGES AT 6-7/8" FROM EACH END AND ONE HINGE AT CENTER.
3) (3) HINGES PER PANEL.

PGT INDUSTRIES
ADDED ACTIVE HOOK
ALUMINUM SWING DOOR (LAF)
DOOR ELEVATIONS
PGT
SHEET

TABLE 6A: SINGLE DOOR - SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)						
Table applies to Glass Type S Standard Threshold		Frame Height				
		24"	28"	80"	96"	98"
Glass Width	23" (A)	+60/-69	+62/-69	+62/-62	+52/-62	+66/-62
	35" (B)	+60/-60	+60/-60	+60/-60	+60/-60	+60/-55
	59" (C)	+60/-60	+60/-60	+62/-60 [1]	+60/-60 [1]	+60/-60 [1]
	71-1/4" (D)	+60/-60	+60/-60 [1]	+62/-60 [1]	+57.5/-57.5 [1]	+55.5/-55.5 [1]

TABLE 6B: SINGLE DOOR - SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)	
Table applies to Glass Type A2 & S Standard Threshold	Frame Height up to 96"
Frame Width 71-1/4" (D)	+60/-60

TABLE 6A: DOUBLE DOOR - SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)							
Table applies to Glass Type S Standard Threshold		Frame Height					
		24"	28"	80"	96"	98"	98"
Glass Width	46" (B)	+60/-75	+60/-69	+60/-69	+60/-60	+57/-60	+55/-60
	60" (C)	+60/-69	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60
	94" (D)	+60/-72	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60
	71-1/4" (E)	+60/-60	+60/-60 [1]	+60/-60 [1]	+60/-60 [1]	+60/-60 [1]	+60/-60 [1]

TABLE 6B: DOUBLE DOOR - SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)							
Table applies to Glass Type A2 & S Standard Threshold		Frame Height					
		24"	28"	80"	96"	98"	98"
Glass Width	46" (B)	+70/-60	+62/-60	+60/-60	+60/-60	+60/-60	+55/-60
	60" (C)	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60
	94" (D)	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60
	71-1/4" (E)	+60/-60	+60/-60	+60/-60	+60/-60	+60/-60 [1]	+60/-60

DESIGN PRESSURE NOTES:
1) WATER TEST PRESSURE @ 15% OF THE LOWEST POSITIVE PRESSURE OF THE ENTIRE SYSTEM.
2) FLUSH BOLTS AND LOCKS MUST BE ENGAGED TO HEAD AND SILL DURING PERIODS OF HURRICANE WARNING.
3) FACE MOUNTED FLUSH BOLTS REQUIRED TOP AND BOTTOM ON ACTIVE PANEL FOR DOUBLE DOORS OVER 80" IN HEIGHT WITH SINGLE POINT LOCK.

SINGLE POINT LOCK

NO.	DESCRIPTION	DATE
1	ADDED TABLE 6A, 6B - SP	07-15-25

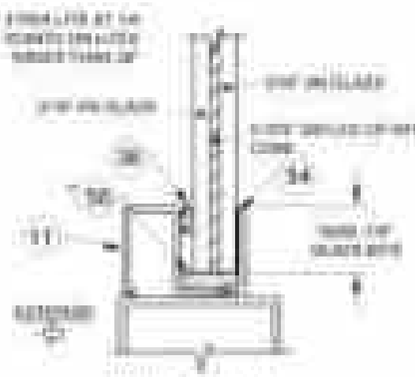
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1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
(941) 480-1600
WWW.PGTINDUSTRIES.COM

ALUMINUM CASEMENT DOOR (CAD)
DP TABLES (SINGLE POINT)

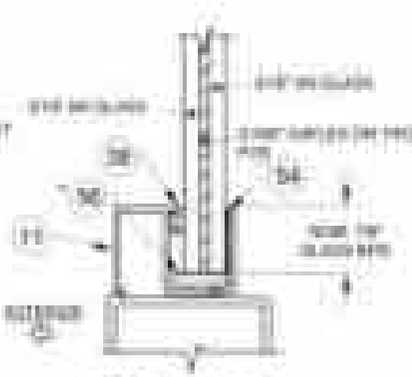
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MC	01-30-14	NTS

DRAWING NO.	REVISION
NOA 14-0128.20	1

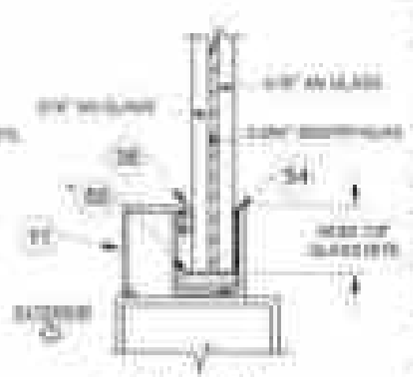
PRODUCT APPROVAL ACCEPTANCE
FLORIDA PRODUCT APPROVAL
No. 14128.20
STATE OF FLORIDA
PROFESSIONAL ENGINEER



GLASS TYPE A1
1" NOM. THICKNESS



GLASS TYPE A2
1" NOM. THICKNESS



GLASS TYPE A3
1" NOM. THICKNESS

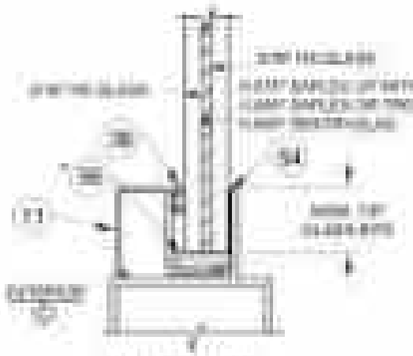
TABLE B:

Glass Type	Description (Listed from Exterior to Interior)
A1	1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB
A2	1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Tempered - 5/16" Air - 1/4" Lami. 0.060" PVB
A3	1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB
B	1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Lami. 0.060" PVB
	1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Tempered - 1/2" Air - 1/4" Lami. 0.060" PVB
	1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Tempered
C1	1" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB
C2	1" Lami. 0.060" PVB - 5/16" Air - 1/4" Tempered - 5/16" Air - 1/4" Lami. 0.060" PVB
C3	1" Lami. 0.060" PVB - 5/16" Air - 1/4" Lami. 0.060" PVB - 5/16" Air - 1/4" Tempered
D	1/4" Lami. 0.060" PVB - 1/2" Air - 1/4" Tempered
E	1" Lami. 0.060" PVB - 5/16" Air - 1/4" Tempered

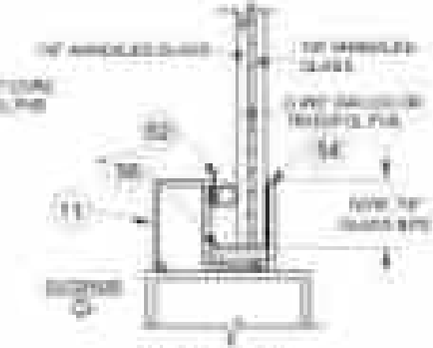
ADD = ADHESIVE
HVG = HEAT STRENGTHENED
TEM = TEMPERED

.030" BAFFLES OF WITH PET CORE & 0.060" BAFFLES PVB GLASS BY EASTMAN CHEMICAL CO.

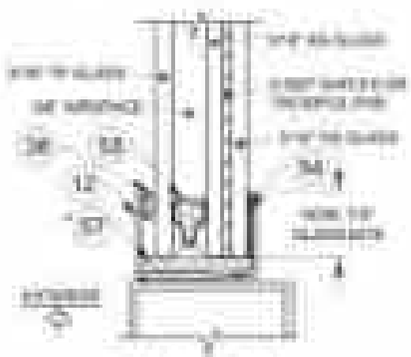
0.060" SENTRYGLAS & 0.060" TEQUITAL PVB BY KURARAY AMERICA, INC.



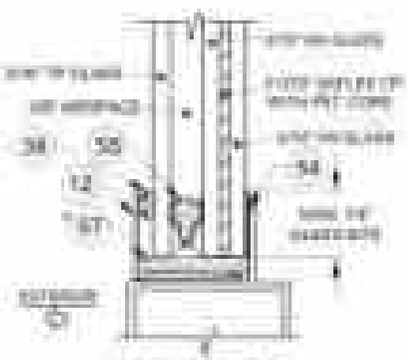
GLASS TYPE B
1" NOM. THICKNESS



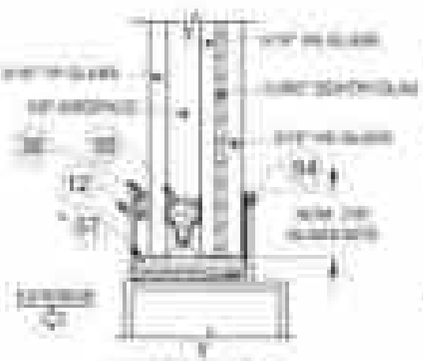
GLASS TYPE D
1" NOM. THICKNESS



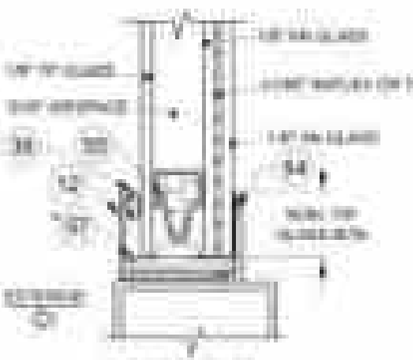
GLASS TYPE C1
1" NOM. THICKNESS



GLASS TYPE C2
1" NOM. THICKNESS



GLASS TYPE C3
1" NOM. THICKNESS



GLASS TYPE E
1" NOM. THICKNESS

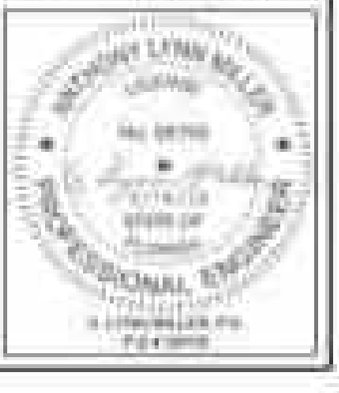
NO.	CHANGES THIS SHEET	DATE
1		5-15-20

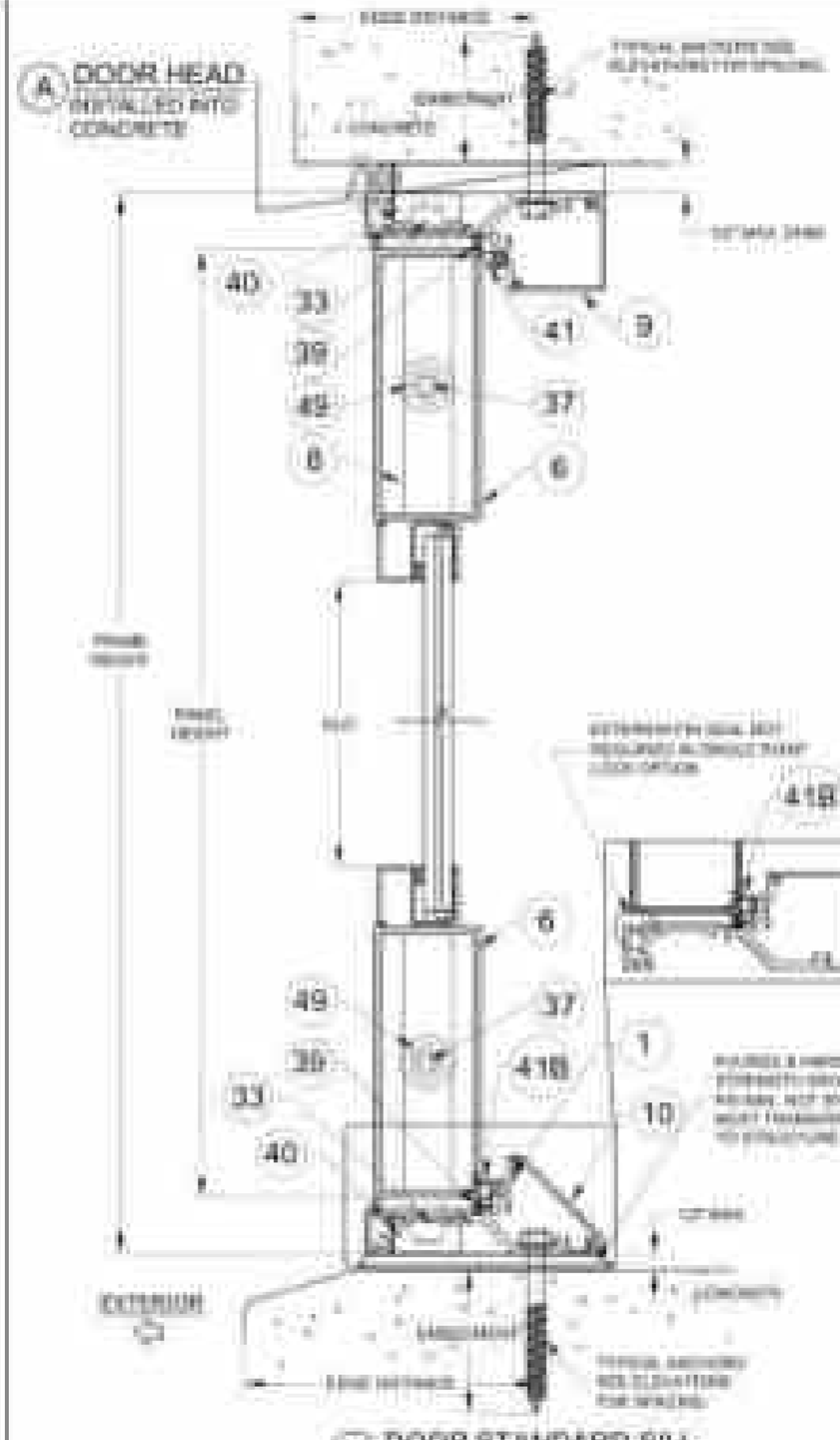
PGT INNOVATIONS

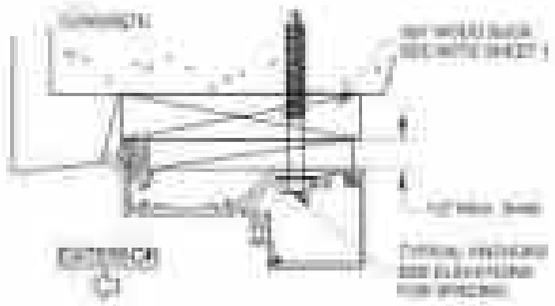
ALUMINUM OUTSWING DOOR SYSTEMS

GLASS DETAILS

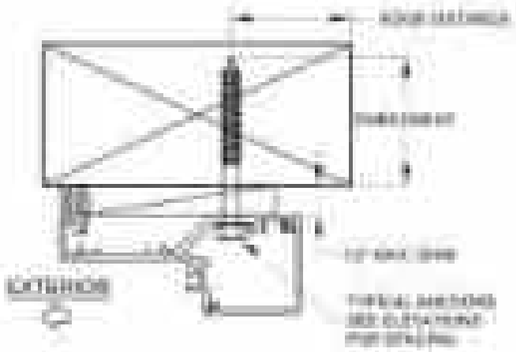
DRAWN BY	DATE	SCALE	JOB #
JM	5-15-20	3" = 1'-0"	7046



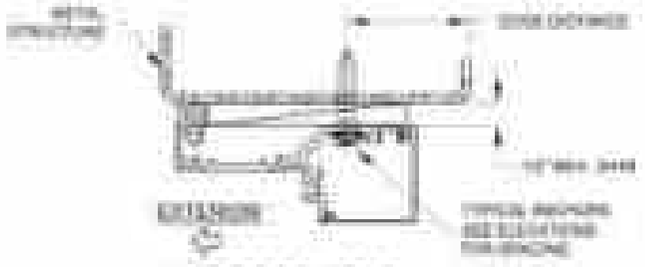




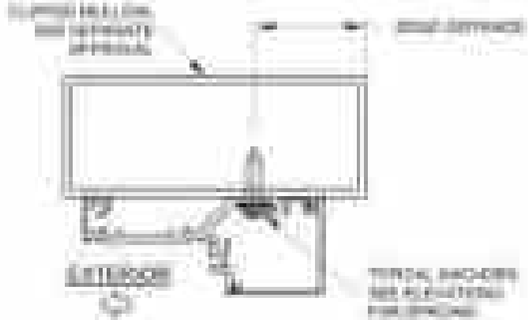
A DOOR HEAD
INSTALLED THRU LK SILLCAN



A DOOR HEAD
INSTALLED INTO WOOD

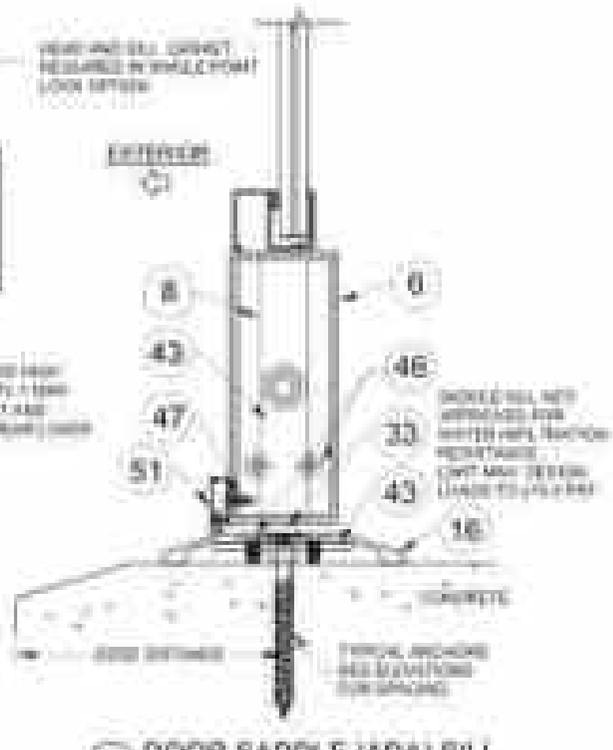


A DOOR HEAD
INSTALLED INTO METAL FRAMING



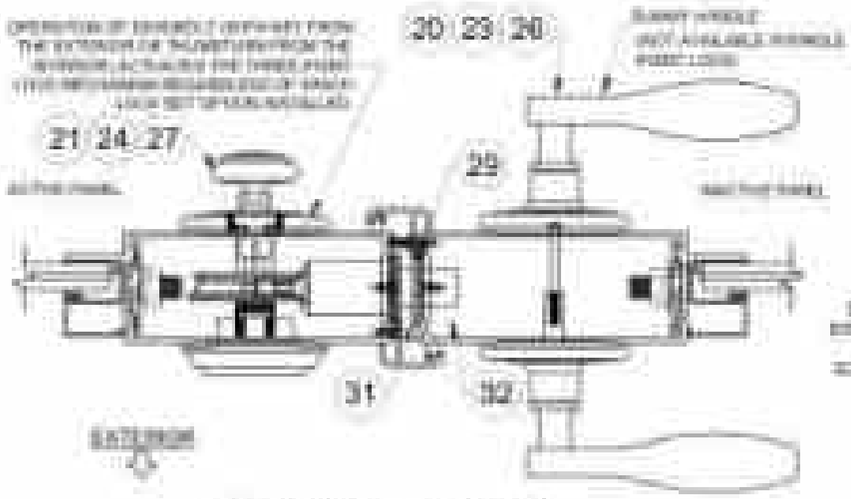
A DOOR HEAD
INSTALLED INTO MULLION

B DOOR STANDARD SILL
INSTALLED INTO CONCRETE

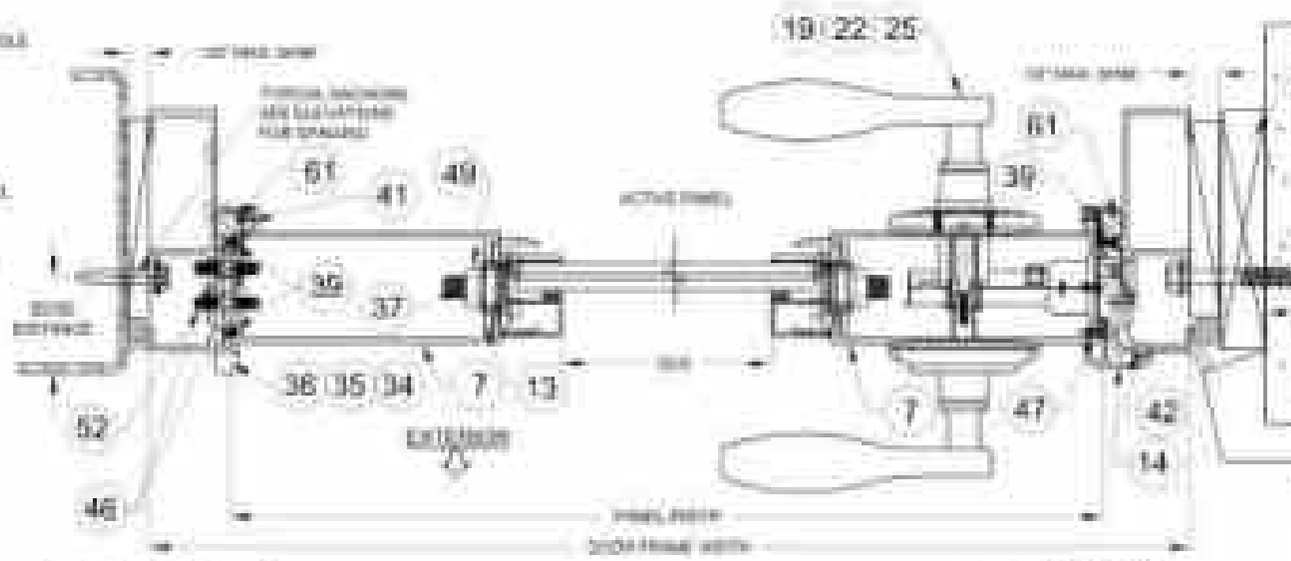


B DOOR SADDLE (ADA) SILL
INSTALLED INTO CONCRETE
NOTE: NOT APPROVED FOR SINGLE POINT OPTION

PGT
ALUMINUM OUTSWING DOOR (A)
VERTICAL SECTION

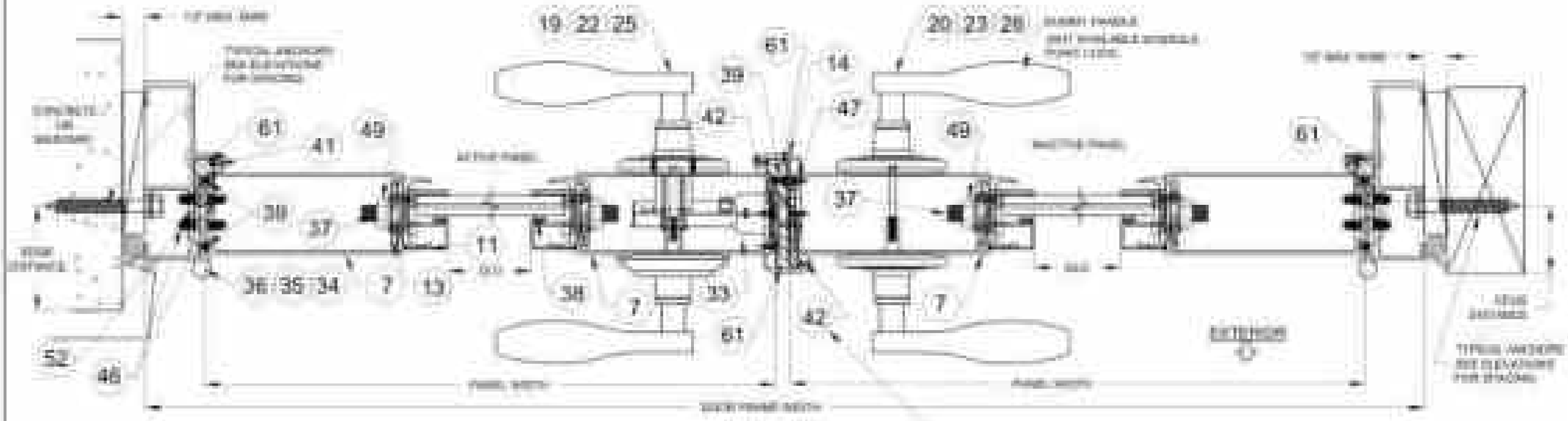


E DOOR XX ASTRAGAL
DEADBOLT LOCK DETAIL



C DOOR JAMB
INSTALLED INTO METAL FRAMING

D DOOR JAMB
INSTALLED THRU OVERLOCK



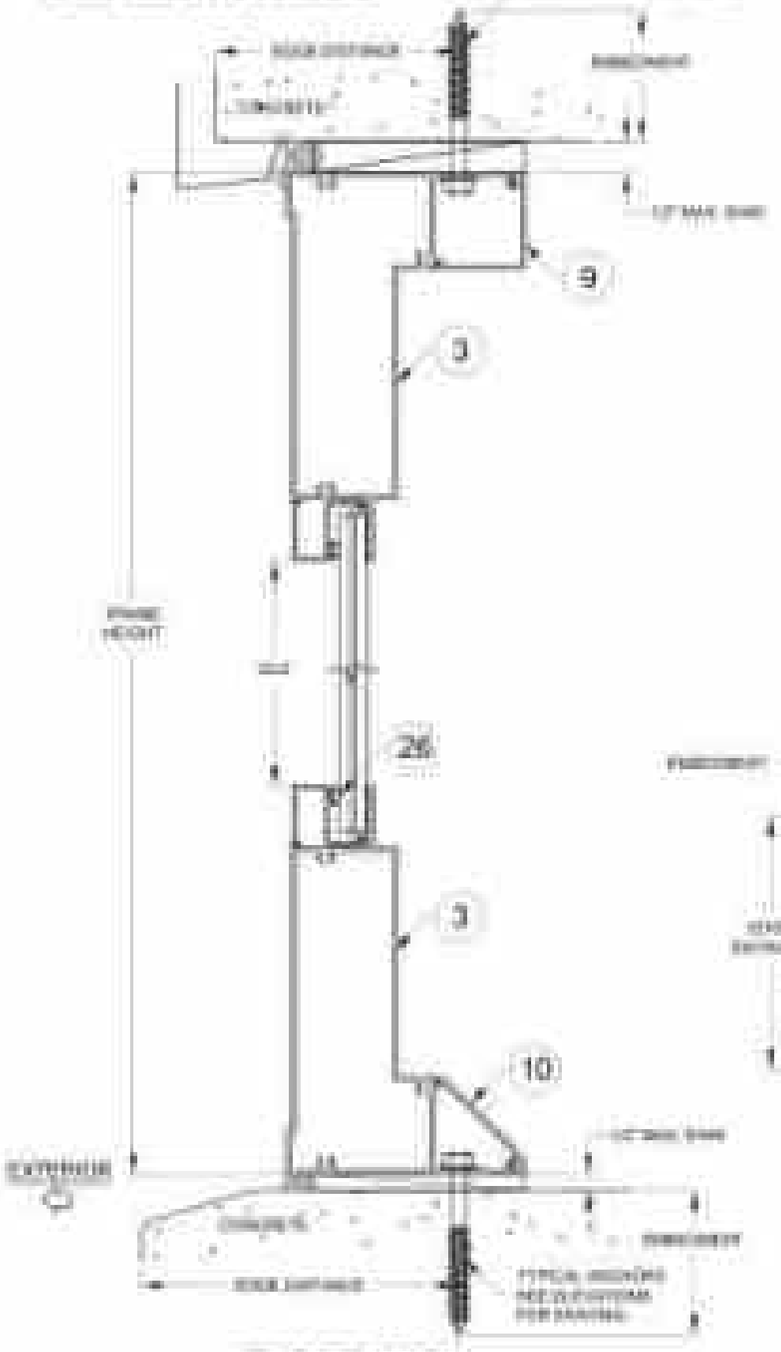
C DOOR JAMB
INSTALLED INTO CONCRETE

E DOOR XX ASTRAGAL

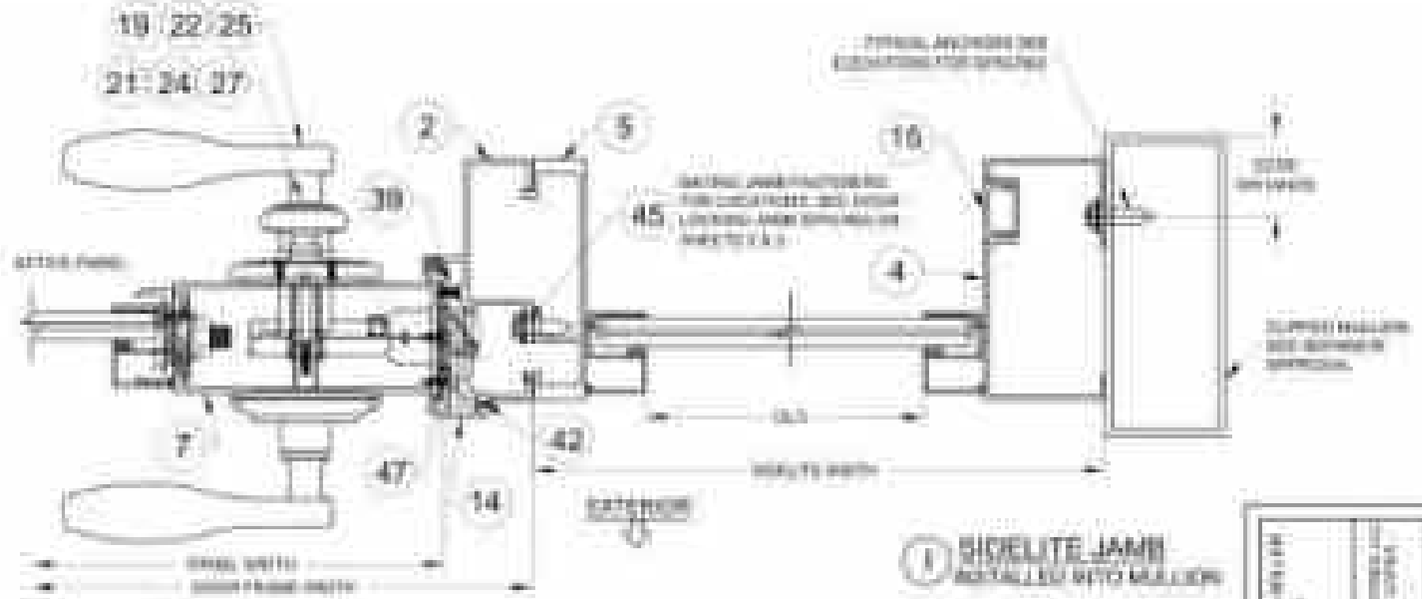
F DOOR JAMB
INSTALLED INTO WOOD

PGT
ALUMINUM SWING DOOR (LH)
HOME TRADITIONS
DETAILS

L SIDELITE HEAD
INSTALLED INTO CONCRETE

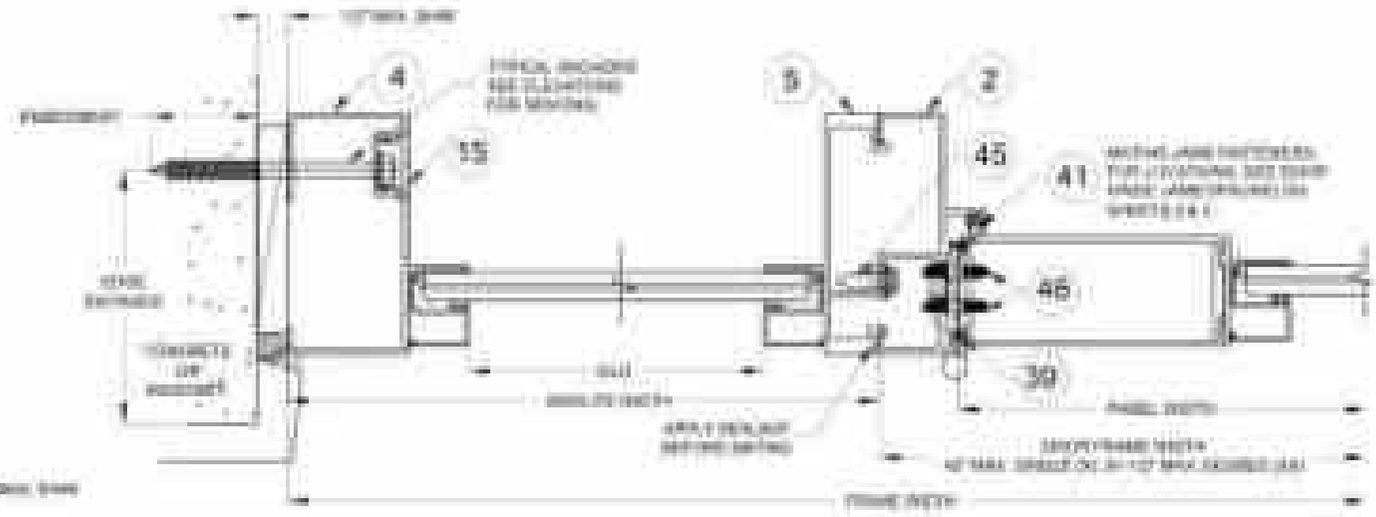


M SIDELITE SILL
INSTALLED INTO CONCRETE



J DOOR LOCK JAMB-TO-SIDELITE

I SIDELITE JAMB
INSTALLED INTO MULLION



H SIDELITE JAMB
INSTALLED INTO CONCRETE

K SIDELITE-TO-DOOR HINGE JAMB

NO.	CHANGES THIS SHEET	BY	DATE
1			
2			
3			
4			
5			

PGT INDUSTRIES

ALUMINUM CASTAWAY DOOR (LH)

SIDELITE DETAILS

DRAWN BY

DATE

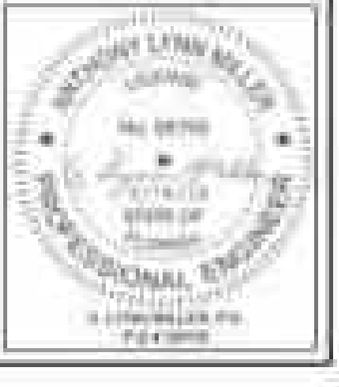
SCALE

DWG NO.

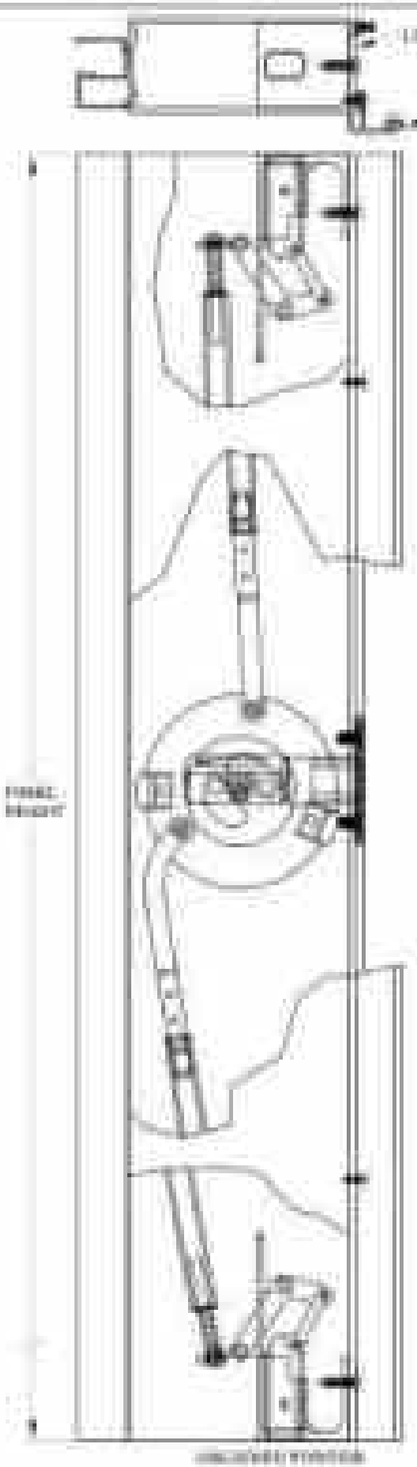
REVISED BY

DATE

SHEET NO.



ACTIVE HARDWARE FOR 3-POINT LOCK



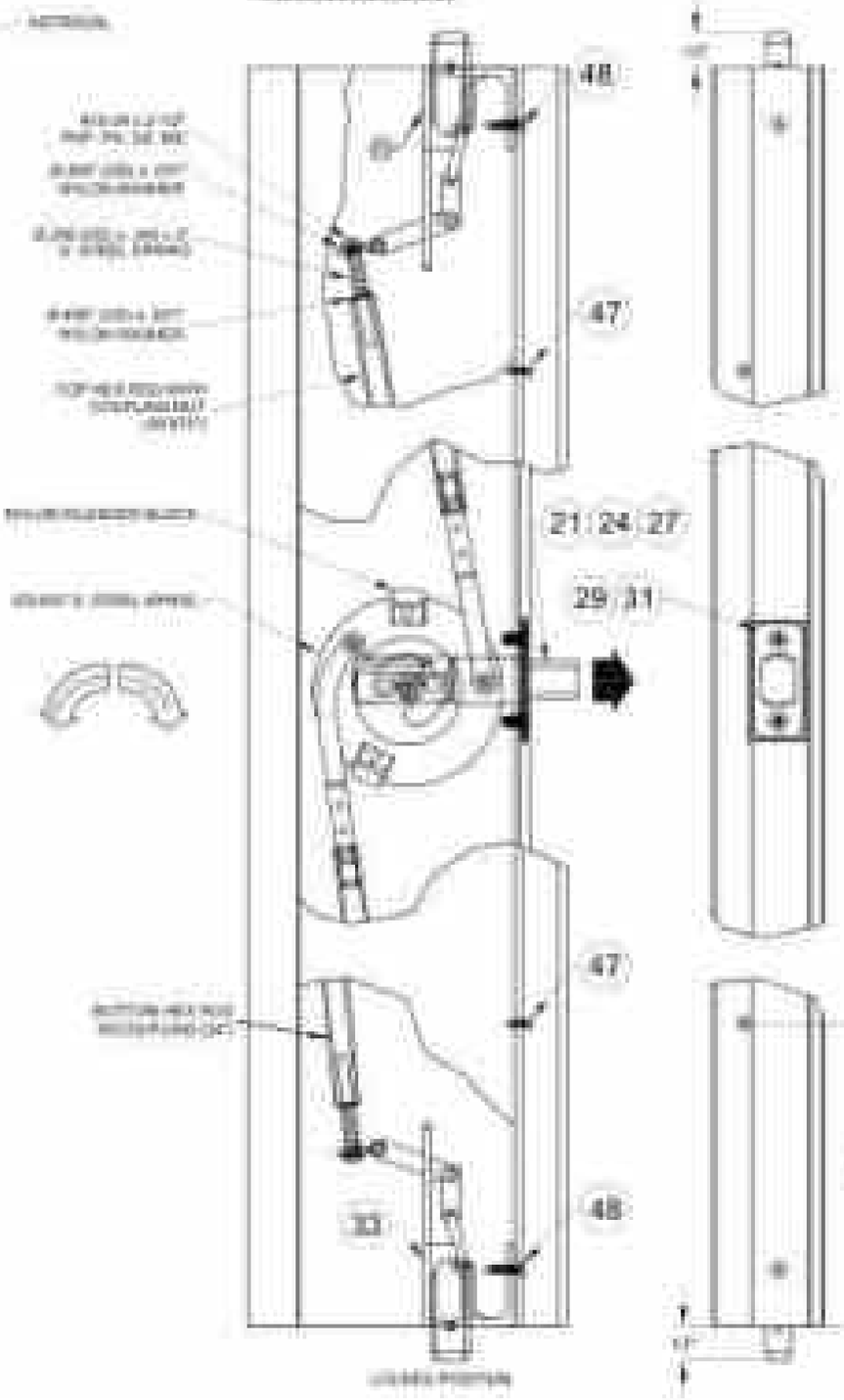


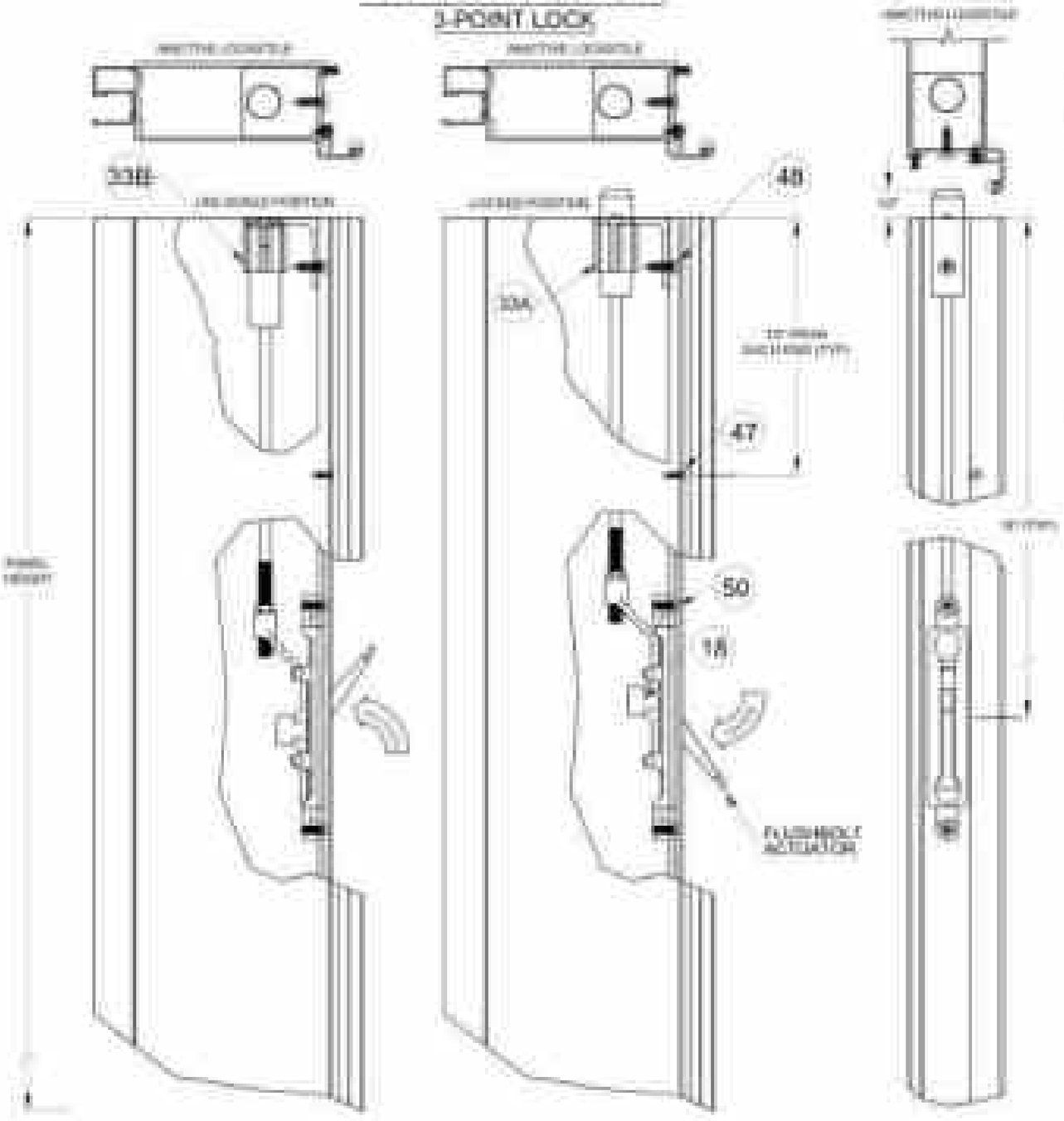
TABLE 6: ACTIVE PANEL LOCKING HARDWARE

ITEM	PART No.	DESCRIPTION		MATERIAL
21		3-POINT LOCK ASSY		
24		SILVER LATCH LOCK	LOCK SET OPTION 1	
27		DEADBOLT W/ KEY		
29		ADJUST LATCH LOCK	LOCK SET OPTION 2	
31		DEADBOLT THUMB TURN		
33		LATCH / DEADBOLT LOCK	LOCK SET OPTION 3	
47		DEADBOLT (MAGNET ONLY)		
28	-	LATCH LOCK STRIKE PLATE		
26	-	DEADBOLT STRIKE PLATE		
30	-	LATCH LOCK STRIKE PLATE COVER		
2	-	LATCH LOCK & DEADBOLT STRIKE HOLE TAPE		
22	-	LATCH LOCK & DEADBOLT PROTECTIVE SAFETY BOX		
23	-	FLASH BOLT ASSEMBLY		
32	-	FLASH BOLT GUIDE TOP & BOTTOM		
46	LATCH	STRIKE PLATE PROTECTOR @ DOOR FRAME HEAD & SILL		
48	TO SILL	ROLL PIN TOP, PIN BOTTOM SHOT (FOR PLUNGER LOCK ONLY)		

ACTIVE PANEL STILE
LOCKING HARDWARE

NO CHANGES THIS SHEET
ALUMINUM OUTSWING DOOR (3/4)
LOCK DETAILS
PGT

INACTIVE HARDWARE FOR 3-POINT LOCK



PARTIAL TOP AND SECTION SHOWN, BOTTOM SIMILAR.

TABLE 7 INACTIVE PANEL LOCKING HARDWARE

ITEM	PART No.	DESCRIPTION	MATERIAL
18	-	FLUSH BOLT ASSEMBLY	ALUM. STEEL
22	701147	ASSY LOCK	5" BRONZE
23	701148	ASSY LOCK	5" BRONZE
25	701151	ASSY LOCK	5" BRONZE
29	-	LATCH LOCK STRIKE	PLATE 5-1/2" x 1"
30	-	FLUSH BOLT W/ACTUATOR	STEEL
30A	-	FLUSH BOLT W/ACTUATOR	CAST IRON
47	-	STRIKE SET W/ACTUATOR @ STACK	PVC
48	RD1345	7/8 x 5/8" PNP PVC SIDE SCULP LOCK	STEEL
50	HARDWARE	3/4 x 1/2" PNP PVC SPLICE/ROUT	STEEL

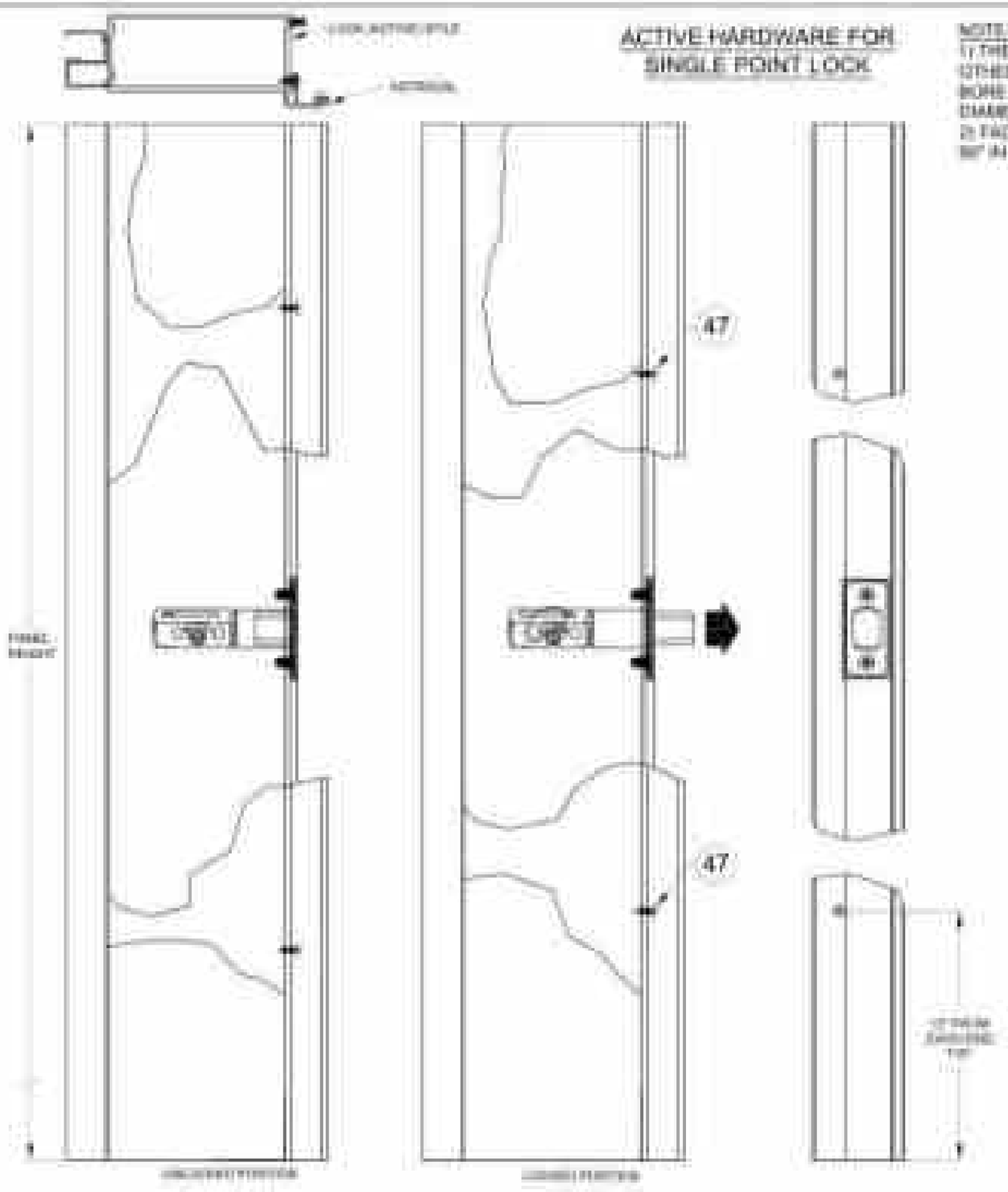
NO.	CHANGES THIS SHEET	BY	DATE
1			5-15-25

PGT INDUSTRIES
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
941.480.1600

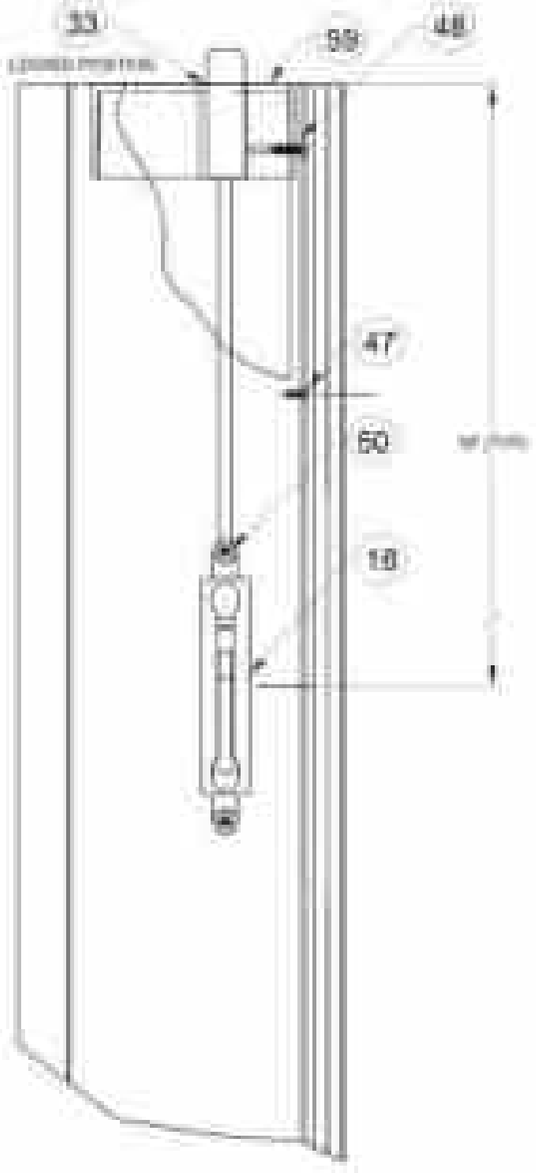
ALUMINUM OUTSWING DOOR SYSTEM
LOCK DETAILS
TDRS 12 OF 15

RICHARD LYNN MILLER
No. 68700
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ACTIVE HARDWARE FOR SINGLE POINT LOCK



NOTE: ACTIVE PANEL LOCKING HARDWARE
1) THE DOOR IS DESIGNED TO ALLOW INSTALLATION OF A GENERIC LOCKSET (LATCH AND DEADBOLT) BY OTHERS. PROVIDED THE HARDWARE MEETS THE FOLLOWING SPECIFICATIONS: A 2 1/8 INCH DIAMETER CROSS BORE WITH A 2 3/8 INCH BACKSET, 5 1/2 INCHES ON CENTER BETWEEN LATCH AND DEADBOLT, A 1 INCH DIAMETER EDGE BORE FOR BOTH LATCH AND DEADBOLT, AND A MINIMUM 1 INCH DEADBOLT THROW.
2) FACE MOUNTED FLUSH BOLTS REQUIRED TOP AND BOTTOM ON ACTIVE PANELS FOR DOUBLE DOORS OVER 96" IN HEIGHT WITH SINGLE POINT LOCK.



PARTIAL TOP END VIEW SHOWN, BOTTOM END SIMILAR (SEE NOTE 2)

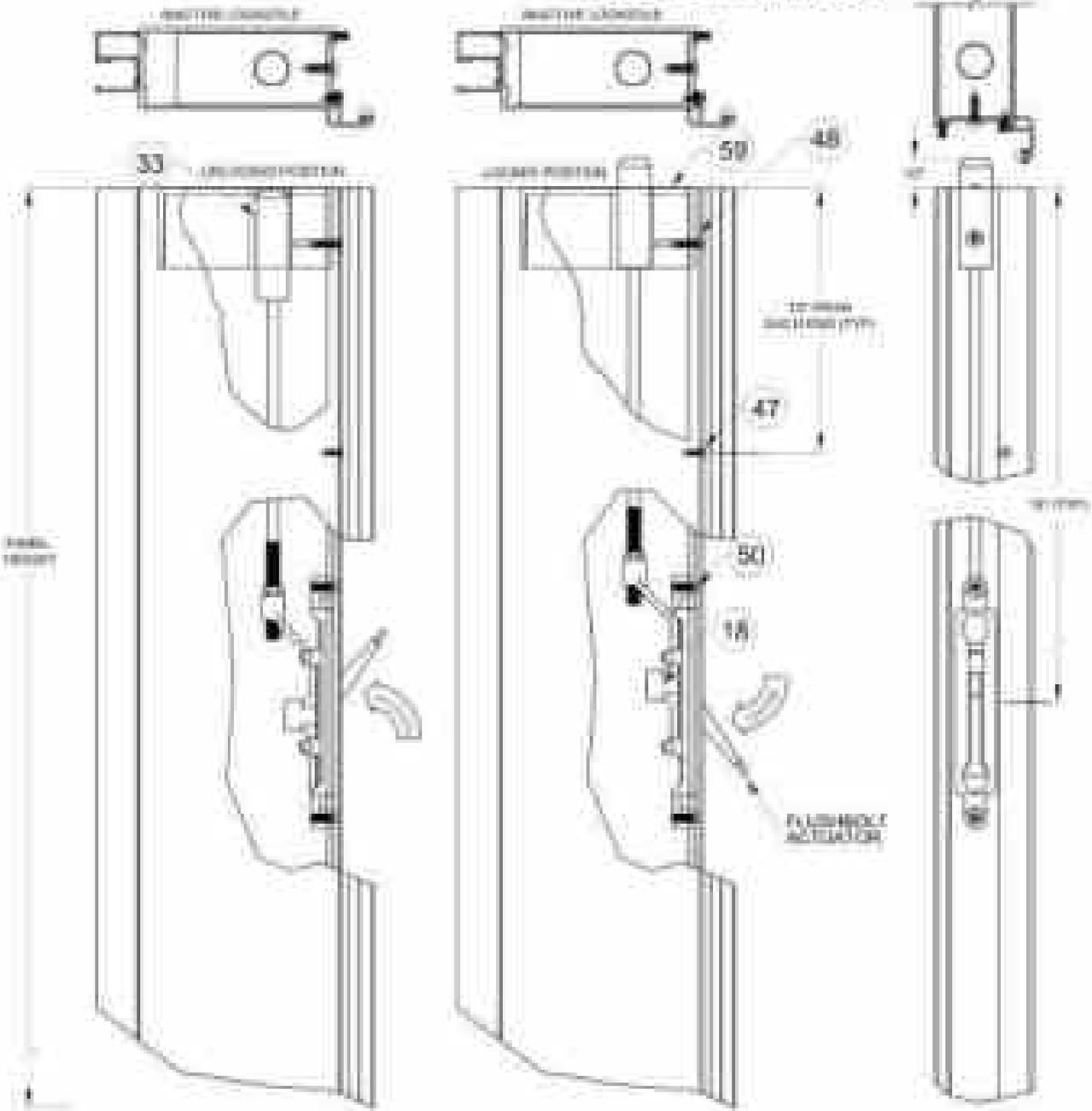
ACTIVE PANEL STILE
LOCKING HARDWARE

10	5/16/25	ADDED ALUMINUM FINISH
9	4/2/25	ADDED ALUMINUM FINISH
8	3/4/25	ADDED ALUMINUM FINISH
7	2/4/25	ADDED ALUMINUM FINISH
6	1/6/25	ADDED ALUMINUM FINISH
5	12/2/24	ADDED ALUMINUM FINISH
4	11/4/24	ADDED ALUMINUM FINISH
3	10/7/24	ADDED ALUMINUM FINISH
2	9/9/24	ADDED ALUMINUM FINISH
1	8/12/24	ADDED ALUMINUM FINISH
-	7/15/24	ADDED ALUMINUM FINISH

PGT INNOVATIONS
ALUMINUM SLIDING DOOR ASSEMBLY
LOCK DETAILS (SINGLE POINT)
FORM 9 OF 9

ANTHONY LYNN MILLER
LICENSE
No. 68700
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

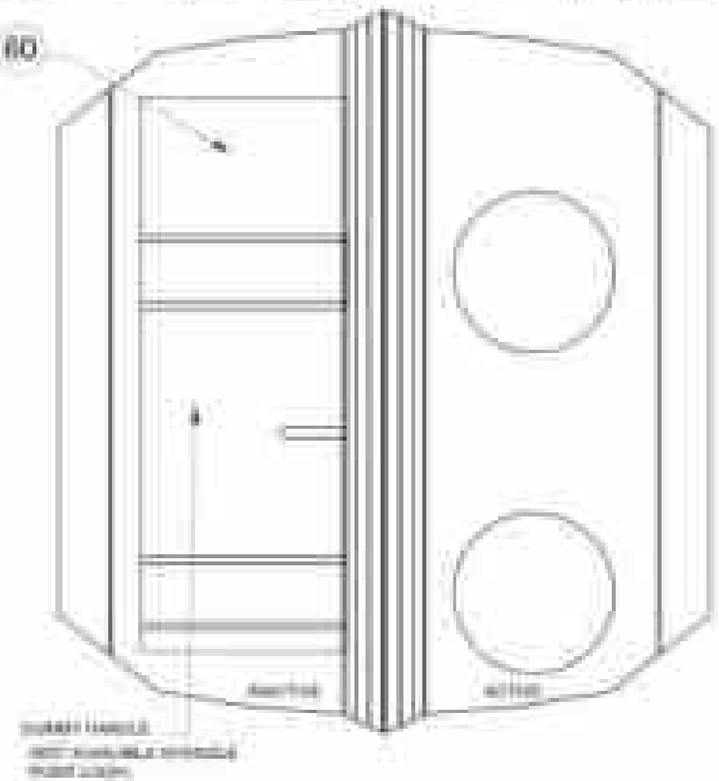
INACTIVE HARDWARE FOR SINGLE POINT LOCK



PARTIAL TOP AND SECTION SHOWN, BOTTOM SIMILAR

TABLE 6: INACTIVE PANEL LOCKING HARDWARE

ITEM	PART No.	DESCRIPTION	MATERIAL
18			
33			
46			
47			
50			
59			
60			



PARTIAL MID SECTION SHOWN

INACTIVE PANEL STILE LOCKING HARDWARE

NO.	CHANGES THIS SHEET	DATE
1		

PGT INDUSTRIES
1070 FLORIDA

ALUMINUM CLEARVIEW DOOR (LAMINATED)
LOCK DETAILS | SINGLE POINT

SCALE	3" = 1'-0"
DRAWN	
DATE	
JOB NO.	
SHEET NO.	

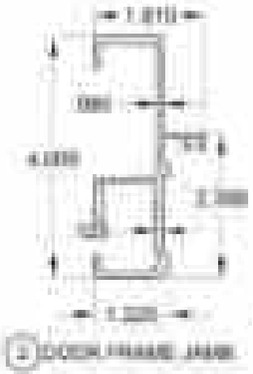
NATHAN LYNN MILLER
LICENSE
NO. 68700
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TABLE 9

ITEM	PART No.	DESCRIPTION	MATERIAL
1	9125	DOOR FRAME HEAD/SILL	ALUM.
2	9126	DOOR FRAME JAMB	ALUM.
3	9128	SIDELITE HEAD & SILL	ALUM.
4	9127	SIDELITE MEETING JAMB	ALUM.
5	9129	MEETING SIDELITE FRAME JAMB	ALUM.
6	9130	RABBIT STOP & BOTTOM RAIL	ALUM.
7	9134	PANEL VERTICAL STILE	ALUM.
8	9135	SHOE/HI BLOCK	ALUM.
9	9161	FRAME SCREEN COVER	ALUM.
10	9140	SILL DIVERTER SCREEN COVER	ALUM.
11	9121	SEALING BEAD (TYP. CAP)	ALUM.
12	9122	SEALING BEAD (1" BASE & CAP)	ALUM.
13	9136	SHOE/HI PLATE	ALUM.
14	9150	ASTRAGAL ADAPTER	ALUM.
15	9858	SIDELITE JAMB COVER	ALUM.
16	9840	SADDLE, BASE SHOULD MEET COMPLIANT	ALUM.
17	21460	#10 x 1/2" x 4" HINGE	S. CORPART
18	21526	#10 x 1/2" x 4" HINGE	STEEL
19	21524	#10 x 1/2" x 4" HINGE	S. STEEL
20	21129	1/4"-18 FULLY THREADED EXT. HEX PLATED	S. STEEL
21	21529	SCREW, HEX WASHER THREADING, SELF	SILV.
22	21532	#10 x 1-1/2" ULTRA DRIVE Fin W CAP SCREW	
23	21529	#10 SELF TAPPING PHILLIPS OVAL STAINLESS SCREW W/ GASKET	
4,19		PVC PILOT SEAL W/ SILL AND HEAD FOR SINGLE POINT LOCK OPENING	
24	21531	#10 x 3/4" TYPE 17 CRES SELF DRILLING SCREW	
25	21532	#10 x 1" PAN HD. SLOTTED SELF TAPPING SCREW	
26	21533	#10 x 1-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
27	21534	#8 x 1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
28	21535	#8 x 3/4" PAN HD. SLOTTED SELF TAPPING SCREW	
29	21536	#8 x 1" PAN HD. SLOTTED SELF TAPPING SCREW	
30	21537	#8 x 1-1/4" PAN HD. SLOTTED SELF TAPPING SCREW	
31	21538	#8 x 1-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
32	21539	#8 x 2" PAN HD. SLOTTED SELF TAPPING SCREW	
33	21540	#8 x 2-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
34	21541	#8 x 3" PAN HD. SLOTTED SELF TAPPING SCREW	
35	21542	#8 x 3-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
36	21543	#8 x 4" PAN HD. SLOTTED SELF TAPPING SCREW	
37	21544	#8 x 4-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
38	21545	#8 x 5" PAN HD. SLOTTED SELF TAPPING SCREW	
39	21546	#8 x 5-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
40	21547	#8 x 6" PAN HD. SLOTTED SELF TAPPING SCREW	
41	21548	#8 x 6-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
42	21549	#8 x 7" PAN HD. SLOTTED SELF TAPPING SCREW	
43	21550	#8 x 7-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
44	21551	#8 x 8" PAN HD. SLOTTED SELF TAPPING SCREW	
45	21552	#8 x 8-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
46	21553	#8 x 9" PAN HD. SLOTTED SELF TAPPING SCREW	
47	21554	#8 x 9-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
48	21555	#8 x 10" PAN HD. SLOTTED SELF TAPPING SCREW	
49	21556	#8 x 10-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
50	21557	#8 x 11" PAN HD. SLOTTED SELF TAPPING SCREW	
51	21558	#8 x 11-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
52	21559	#8 x 12" PAN HD. SLOTTED SELF TAPPING SCREW	
53	21560	#8 x 12-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
54	21561	#8 x 13" PAN HD. SLOTTED SELF TAPPING SCREW	
55	21562	#8 x 13-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
56	21563	#8 x 14" PAN HD. SLOTTED SELF TAPPING SCREW	
57	21564	#8 x 14-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
58	21565	#8 x 15" PAN HD. SLOTTED SELF TAPPING SCREW	
59	21566	#8 x 15-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
60	21567	#8 x 16" PAN HD. SLOTTED SELF TAPPING SCREW	
61	21568	#8 x 16-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
62	21569	#8 x 17" PAN HD. SLOTTED SELF TAPPING SCREW	
63	21570	#8 x 17-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
64	21571	#8 x 18" PAN HD. SLOTTED SELF TAPPING SCREW	
65	21572	#8 x 18-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
66	21573	#8 x 19" PAN HD. SLOTTED SELF TAPPING SCREW	
67	21574	#8 x 19-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
68	21575	#8 x 20" PAN HD. SLOTTED SELF TAPPING SCREW	
69	21576	#8 x 20-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
70	21577	#8 x 21" PAN HD. SLOTTED SELF TAPPING SCREW	
71	21578	#8 x 21-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
72	21579	#8 x 22" PAN HD. SLOTTED SELF TAPPING SCREW	
73	21580	#8 x 22-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
74	21581	#8 x 23" PAN HD. SLOTTED SELF TAPPING SCREW	
75	21582	#8 x 23-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
76	21583	#8 x 24" PAN HD. SLOTTED SELF TAPPING SCREW	
77	21584	#8 x 24-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
78	21585	#8 x 25" PAN HD. SLOTTED SELF TAPPING SCREW	
79	21586	#8 x 25-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
80	21587	#8 x 26" PAN HD. SLOTTED SELF TAPPING SCREW	
81	21588	#8 x 26-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
82	21589	#8 x 27" PAN HD. SLOTTED SELF TAPPING SCREW	
83	21590	#8 x 27-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
84	21591	#8 x 28" PAN HD. SLOTTED SELF TAPPING SCREW	
85	21592	#8 x 28-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
86	21593	#8 x 29" PAN HD. SLOTTED SELF TAPPING SCREW	
87	21594	#8 x 29-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
88	21595	#8 x 30" PAN HD. SLOTTED SELF TAPPING SCREW	
89	21596	#8 x 30-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
90	21597	#8 x 31" PAN HD. SLOTTED SELF TAPPING SCREW	
91	21598	#8 x 31-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
92	21599	#8 x 32" PAN HD. SLOTTED SELF TAPPING SCREW	
93	21600	#8 x 32-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
94	21601	#8 x 33" PAN HD. SLOTTED SELF TAPPING SCREW	
95	21602	#8 x 33-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
96	21603	#8 x 34" PAN HD. SLOTTED SELF TAPPING SCREW	
97	21604	#8 x 34-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
98	21605	#8 x 35" PAN HD. SLOTTED SELF TAPPING SCREW	
99	21606	#8 x 35-1/2" PAN HD. SLOTTED SELF TAPPING SCREW	
100	21607	#8 x 36" PAN HD. SLOTTED SELF TAPPING SCREW	



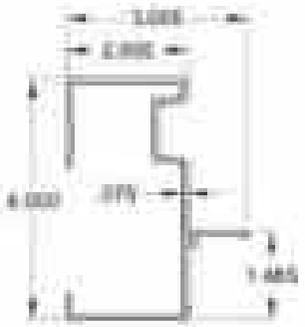
1 DOOR FRAME HEAD/SILL



2 DOOR FRAME JAMB



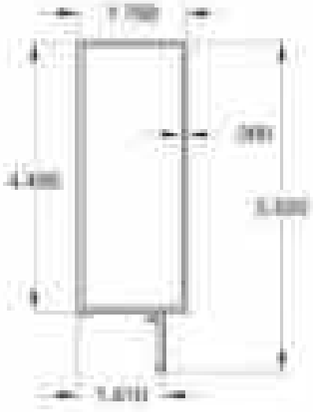
3 9402-78 HEAD & SILL



4 SIDELITE FRAME JAMB



5 SIDELITE MEETING JAMB



6 TOP & BOTTOM RAIL



7 VERTICAL STILE



8 SHOE/HI BLOCK



9 FRAME SCREEN-COVER



10 BALL SLANTED COVER



11 7/16" GLASS STOP



12 1" GLASS STOP



13 SHEAR PLATE



14 ASTRAGAL ADAPTER



15 SIDELITE JAMB COVER



16 SADDLE THRESHOLD

NO.	CHANGES THIS SHEET	DATE
1		07-15-09

PGT INDUSTRIES
1070 ENGLISH LANE
VENICE, FL 34285
941-480-1600

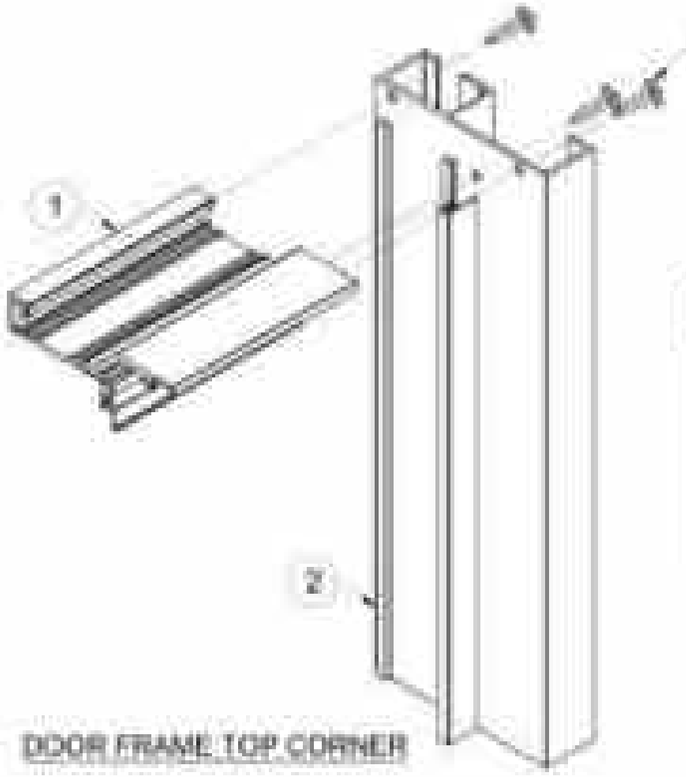
ALUMINUM OUTSWING DOOR (CLOSET)

BILL OF MATERIAL

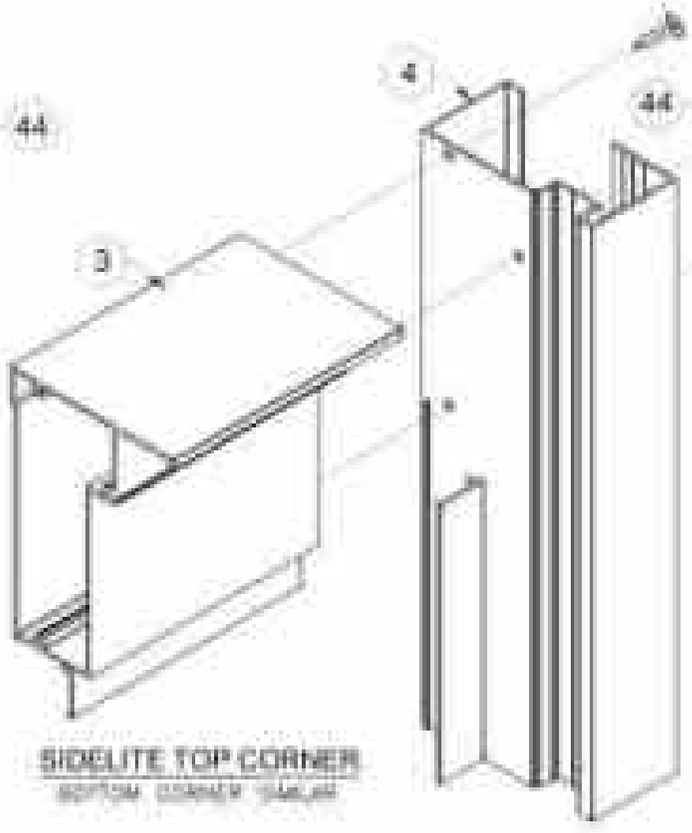
SHEET 10 OF 10

FORM

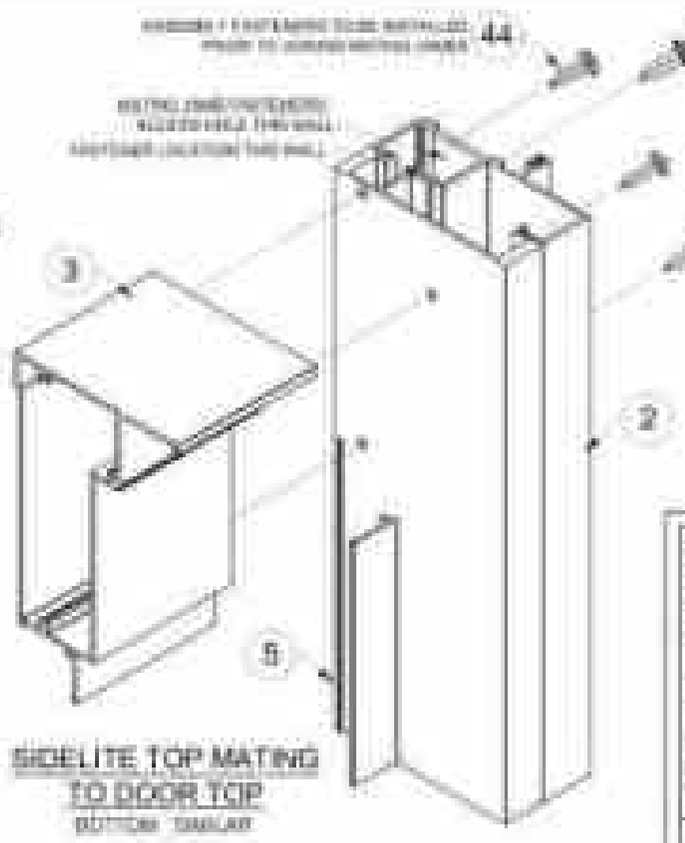
STATE OF FLORIDA
PROFESSIONAL ENGINEER



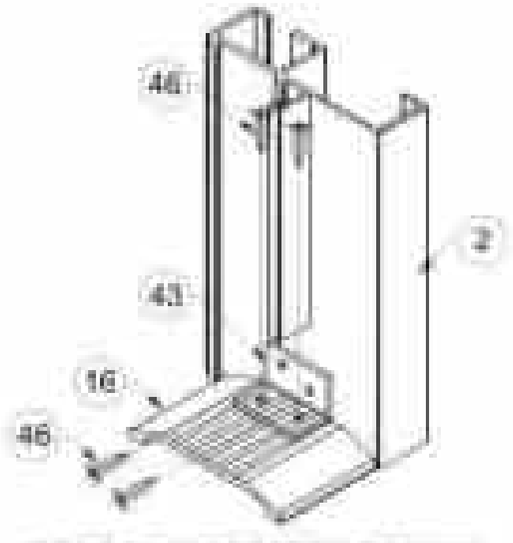
DOOR FRAME TOP CORNER



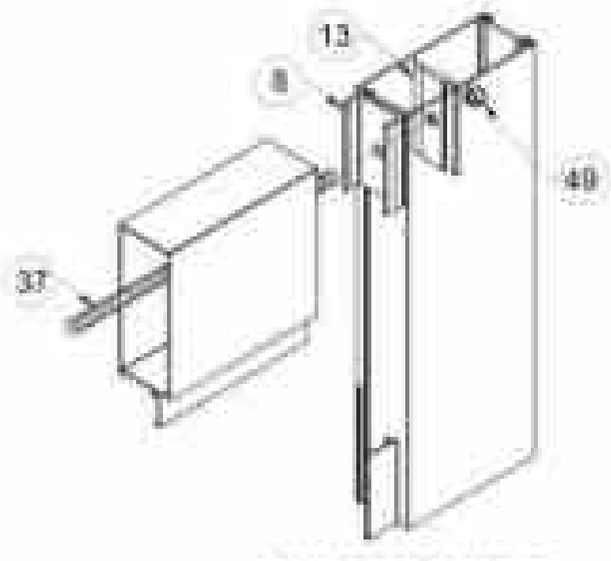
SIDELITE TOP CORNER
BOTTOM CORNER SIMILAR



SIDELITE TOP MATING TO DOOR TOP
BOTTOM SIMILAR



DOOR FRAME BOTTOM CORNER
SIDELITE (ADA) CORNER SHOWN



PANEL TOP CORNER
BOTTOM CORNER SIMILAR

NO CHANGES THIS SHEET

PGT INDUSTRIES
ALUMINUM SLIDING DOOR (LAM)
CORNER ASSEMBLY

ARTHUR LYNN MILLER
LICENSE
No. 49700
STATE OF
FLORIDA
PROFESSIONAL ENGINEER