

SERIES 4025A, NON-IMPACT RESISTANT SLIDING GLASS WINDOW

1. GLAZING OPTIONS:

1. 3/16" ANNEALED GLASS.
2. 3/16" TEMPERED GLASS
3. 1/4" TEMPERED GLASS.
4. 5/8" INSULATED GLASS (I.G.); (2) LITES OF 3/16" TEMPERED GLASS WITH A 1/4" AIR SPACE.

2. CONFIGURATIONS: SEE SHEET 3.

3. DESIGN PRESSURES: SEE TABLES 1-3 ON SHEET 2.

- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
- C. DESIGN PRESSURES OF LESS THAN 40 PSF NOT APPLICABLE IN MIAMI-DADE COUNTY.
- D. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

4. ANCHORAGE: 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.

5. MIAMI-DADE COUNTY APPROVED SHUTTERS ARE REQUIRED IN MIAMI-DADE COUNTY AND WHERE IMPACT RESISTANCE IS REQUIRED.

6. INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH NARROW JOINT SEALANT.

7. REFERENCES: TEST REPORTS FTL-3102, FTL-3116, FTL-3117, FTL-3596, FTL-4273, FTL-4275, FTL-4277, FTL-4278, FTL-4280, FTL-4285, FTL-4341, FTL-5095 AND FTL 18-8217.

- >ELCO ULTRACON AND CRETEFLEX NOA'S
- >ANSI/AF&PA NDS FOR WOOD CONSTRUCTION
- >ALUMINUM DESIGN MANUAL

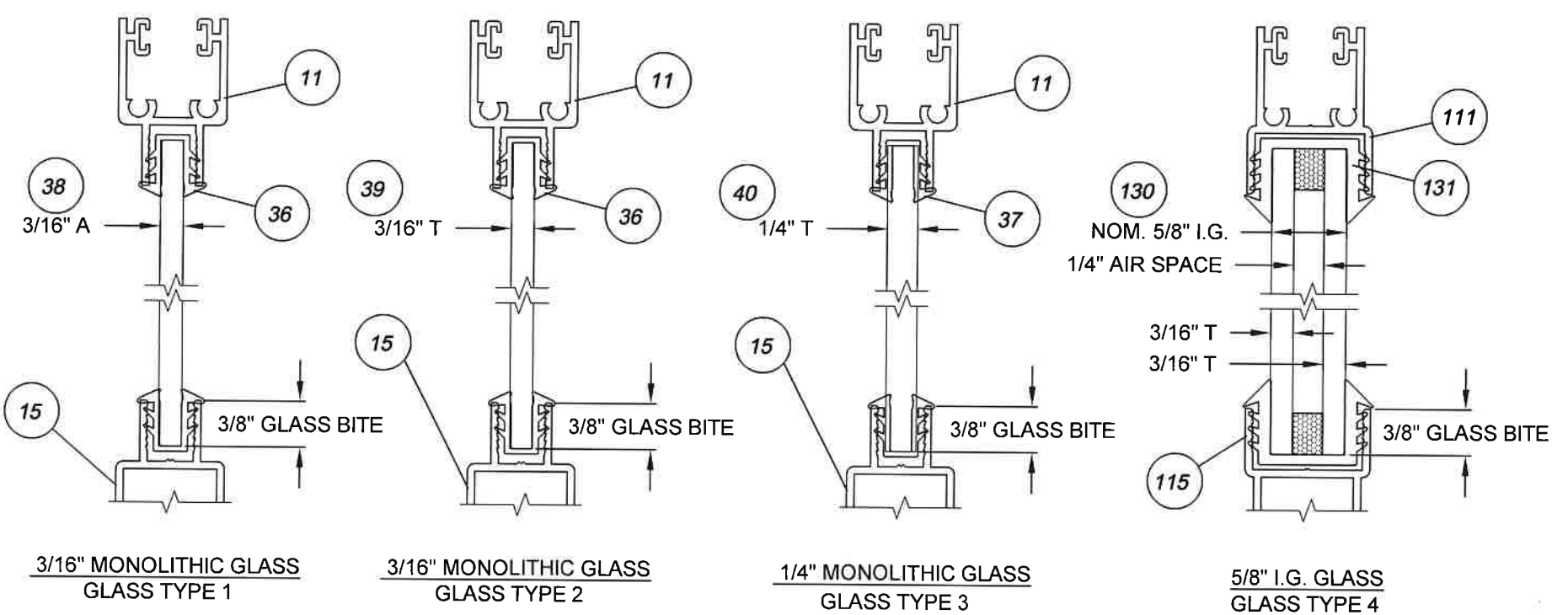
8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

TABLE 1A

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	1/4" 410 SS Elco CreteFlex®	Head / Sill	Southern Pine (SG = 0.55)	1"	1.687"	1-3/8"
		P-hook		1"	1"	1-3/8"
		Jamb		1"	1.594"	1-3/8"
	#12 Steel SMS (Gr. 5)	Head / Sill	Southern Pine (SG = 0.55) / 6063-T5 Aluminum	1"	1.687"	1-3/8" / 1/8"
		P-hook		1"	1"	1-3/8" / 1/8"
		Jamb		1"	1.594"	1-3/8" / 1/8"
B	1/4" Elco UltraCon®	Head / Sill	Concrete (min. 2.85 ksi)	1-3/4"	1.687"	1-3/4"
		P-hook	Concrete (min. 2.85 ksi)	1-1/4"	4"	1-3/8"
		Jamb	Hollow Block (ASTM C90)	2-1/2"	1.594"	1-1/4"
C	1/4" 410 SS Elco CreteFlex®	Head / Sill	Concrete (min. 3.35 ksi)	2-1/2"	1.687"	1-3/4"
		P-hook	Concrete (min. 3.35 ksi)	1-1/4"	3"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	2-1/2"	1.594"	1-1/4"

- 1) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
- 2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.

DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1, 2 & 3 ON SHEET 2	NOT RATED FOR MISSILE IMPACT RESISTANCE



**3/16" MONOLITHIC GLASS
GLASS TYPE 1**

**3/16" MONOLITHIC GLASS
GLASS TYPE 2**

**1/4" MONOLITHIC GLASS
GLASS TYPE 3**

**5/8" I.G. GLASS
GLASS TYPE 4**

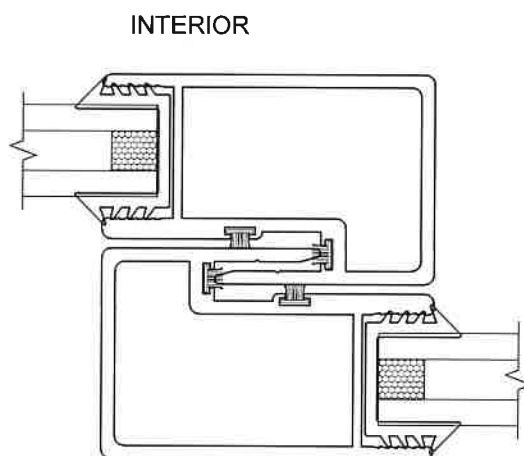
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Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: NOTES, GLAZING DETAILS & TABLE OF CONTENTS		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 9"=1'-0"	Sheet: 1 of 13	Drawing No.: SGD4025A-W		
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				A. LYNN MILLER, P.E. #58705	

COMPARATIVE ANALYSIS: GLASS TYPE: 1. 3/16" ANNEALED (60" HIGH MAX) TABLE 1.

- >EXTENDED SILL, 2 1/2" HIGH 2. 3/16" TEMPERED
- >SINGLE/SINGLE INTERLOCK 3. 1/4" TEMPERED
- >NO REINFORCEMENT (SEE SECTIONS ON SHEET 5) 4. 5/8" TEMPERED I.G. (3/16"T, 1/4"SPACE, 3/16"T)

NOM. PANEL WIDTH	GLASS	WINDOW HEIGHT													
		36" (3 ⁰)		42" (3 ⁶)		48" (4 ⁰)		54" (4 ⁶)		60" (5 ⁰)		72" (6 ⁰)		80" (6 ⁶)	
24" (2 ⁰)	1	+65.0	-123.0	+65.0	-94.7	+65.0	-86.2	+65.0	-80.9	+65.0	-76.2				
	2,3	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-112.0	+65.0	-98.8
	4	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-121.3	+65.0	-107.1
30" (2 ⁶)	1	+65.0	-93.5	+65.0	-84.1	+65.0	-73.6	+62.5	-62.5	+55.6	-55.6				
	2,3	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-119.5	+65.0	-94.3	+65.0	-82.7
	4	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-129.4	+65.0	-102.2	+65.0	-89.6
36" (3 ⁰)	1	+65.0	-86.8	+65.0	-77.4	+65.0	-67.4	+58.7	-58.7	+51.1	-51.1				
	2,3	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-83.0	+65.0	-72.3
	4	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-89.9	+65.0	-78.3
42" (3 ⁶)	1	+65.0	-77.0	+65.0	-70.3	+61.5	-61.5	+55.4	-55.4	+49.4	-49.4				
	2,3	+65.0	-80.0	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4	+65.0	-75.3	+65.0	-65.1
	4	+65.0	-86.7	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9	+65.0	-81.6	+65.0	-70.5
48" (4 ⁰)	1	+65.0	-67.0	+61.7	-61.7	+56.7	-56.7	+50.8	-50.8	+46.7	-46.7				
	2,3	+64.0	-64.0	+61.0	-61.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	4	+65.0	-69.3	+65.0	-66.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0



EXTERIOR
SINGLE/SINGLE INTERLOCK
NO REINFORCEMENT

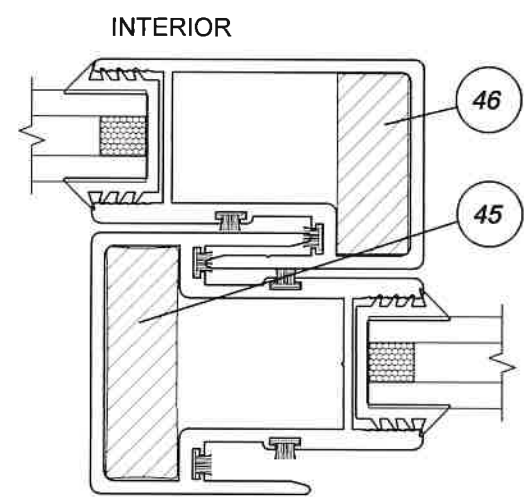
COMPARATIVE ANALYSIS: GLASS TYPE: 3. 1/4" TEMPERED TABLE 3.

- >EXTENDED SILL, 2 1/2" HIGH 3. 1/4" TEMPERED
- >SINGLE/DOUBLE INTERLOCK (OUTSIDE) 4. 5/8" TEMPERED I.G. (3/16"T, 1/4"SPACE, 3/16"T)
- >FULL REINFORCEMENT (SEE SECTIONS ON SHEET 6)

NOM. PANEL WIDTH	GLASS	WINDOW HEIGHT													
		36" (3 ⁰)		42" (3 ⁶)		48" (4 ⁰)		54" (4 ⁶)		60" (5 ⁰)		72" (6 ⁰)		80" (6 ⁶)	
24" (2 ⁰)	3	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-127.1
	4	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0
30" (2 ⁶)	3	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-121.3	+65.0	-106.3
	4	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-115.2
36" (3 ⁰)	3	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-106.7	+65.0	-92.9
	4	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-115.6	+65.0	-100.6
42" (3 ⁶)	3	+65.0	-80.0	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4	+65.0	-78.4
	4	+65.0	-86.7	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9	+65.0	-84.9
48" (4 ⁰)	3	+64.0	-64.0	+61.0	-61.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0	+60.0	-60.0
	4	+65.0	-69.3	+65.0	-66.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0	+65.0	-65.0

SEE NOTES 1 & 2

SILL HEIGHT (IN.)	POS. DESIGN PRESS. (PSF)
2 1/2"	+65.0
1 3/4"	+35.3
INTERIOR SILL	SEE NOTE 2

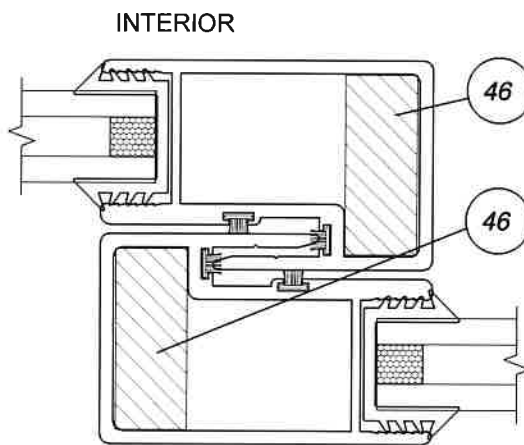


EXTERIOR
SINGLE/DOUBLE INTERLOCK
REINFORCED

COMPARATIVE ANALYSIS: GLASS TYPE: 2. 3/16" TEMPERED TABLE 2.

- >EXTENDED SILL, 2 1/2" HIGH 3. 1/4" TEMPERED
- >SINGLE/SINGLE INTERLOCK 4. 5/8" TEMPERED I.G. (3/16"T, 1/4"SPACE, 3/16"T)
- >FULL REINFORCEMENT (SEE SECTIONS ON SHEET 5)



NOM. PANEL WIDTH	GLASS	WINDOW HEIGHT													
		36" (3 ⁰)		42" (3 ⁶)		48" (4 ⁰)		54" (4 ⁶)		60" (5 ⁰)		72" (6 ⁰)		80" (6 ⁶)	
24" (2 ⁰)	2,3	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-120.0	+65.0	-105.9
	4	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-130.0	+65.0	-120.0	+65.0	-105.9
30" (2 ⁶)	2,3	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-101.1	+65.0	-88.6
	4	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-128.0	+65.0	-101.1	+65.0	-88.6
36" (3 ⁰)	2,3	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-77.4
	4	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-88.9	+65.0	-77.4
42" (3 ⁶)	2,3	+65.0	-66.7	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3
	4	+65.0	-66.7	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3	+65.0	-65.3
48" (4 ⁰)	2,3	+53.3	-53.3	+50.8	-50.8	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0
	4	+53.3	-53.3	+50.8	-50.8	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0	+50.0	-50.0



EXTERIOR
SINGLE/SINGLE INTERLOCK
REINFORCED

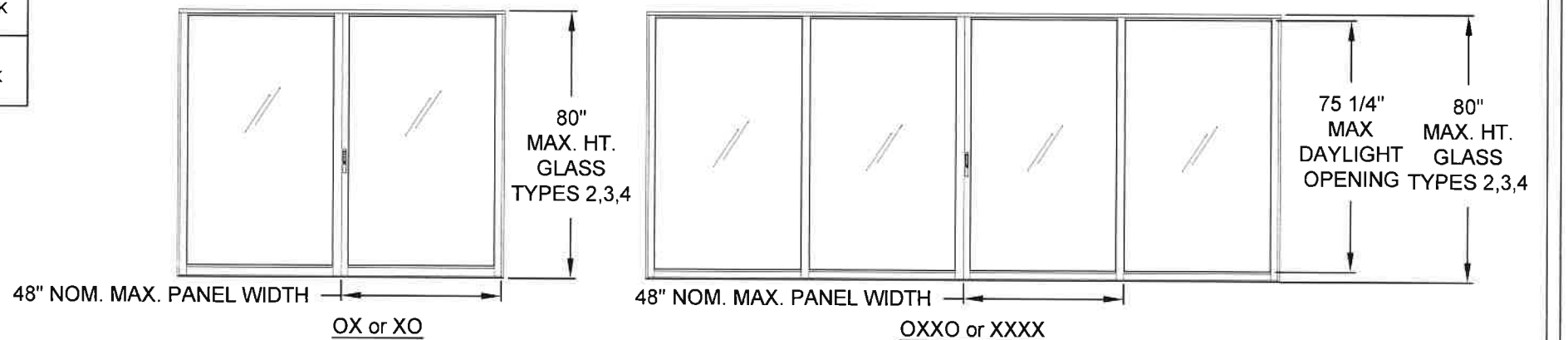
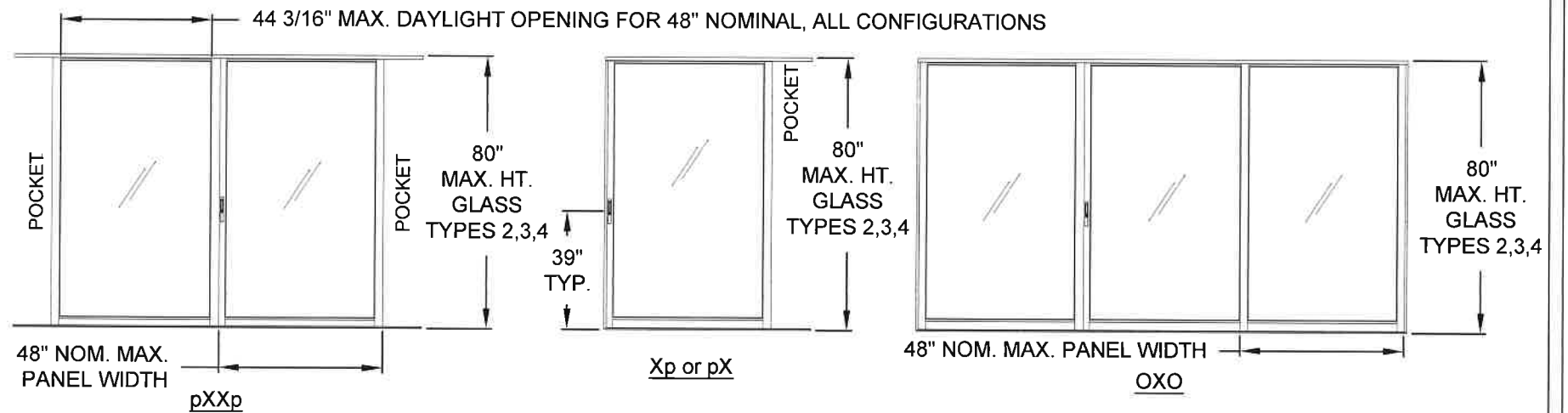
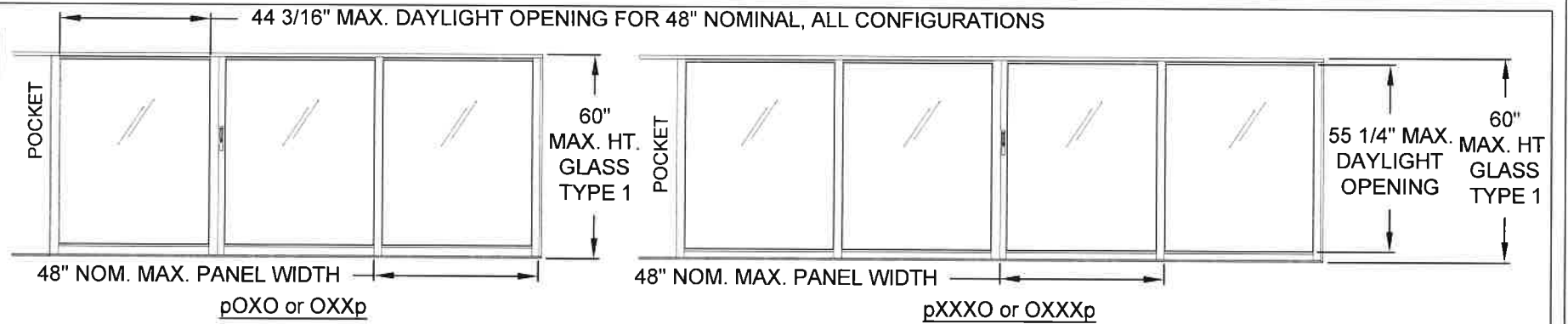
NOTES:

- POSITIVE DESIGN PRESSURES SHOWN IN TABLES ARE BASED ON THE 2 1/2" HIGH SILL. POSITIVE DESIGN PRESSURE IS LIMITED TO 35.3 PSF WITH THE 1 3/4" SILL. NEGATIVE PRESSURES ARE UNCHANGED
- INTERIOR SILL IS USED WHERE WATER RESISTANCE IS NOT REQUIRED (SUCH AS A PASS THROUGH APPLICATION), IN WHICH CASE POSITIVE DESIGN PRESSURE EQUALS THE NEGATIVE DESIGN PRESSURE SHOWN IN TABLES 1 THROUGH 3 FOR THE RESPECTIVE SIZE.
- OPERABLE WINDOWS MUST MEET MINIMUM EGRESS/ESCAPE REQUIREMENTS PER THE FBC

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: DESIGN PRESSURES		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By: *	Rev. Date: *	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 9"=1'-0"	Sheet: 2 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296 A. LYNN MILLER, P.E. P.E.# 58705

CODE	PANEL TYPES	
A	R.H. INTERLOCK	LOCKSTILE
B	R.H. INTERLOCK	R.H. INTERLOCK
C	R.H. INTERLOCK	REVERSE ASTRAGAL
D	LOCKSTILE	R.H. INTERLOCK
E	L.H. INTERLOCK	R.H. INTERLOCK
F	L.H. INTERLOCK	L.H. INTERLOCK
G	LOCKSTILE	DOUBLE INTERLOCK
H	R.H. INTERLOCK	L.H. INTERLOCK
I	DOUBLE INTERLOCK	DOUBLE INTERLOCK
J	LOCKSTILE	STANDARD ASTRAGAL
K	L.H. INTERLOCK	LOCKSTILE
L	L.H. INTERLOCK	STANDARD ASTRAGAL
M	LOCKSTILE	L.H. INTERLOCK
N	STANDARD ASTRAGAL	L.H. INTERLOCK
P	R.H. INTERLOCK	FIXED LOCKSTILE

CODE	PANEL TYPES	
R	FIXED LOCKSTILE	L.H. INTERLOCK
S	FIXED LOCKSTILE	STANDARD ASTRAGAL
T	REVERSE ASTRAGAL	FIXED LOCKSTILE
U	REVERSE ASTRAGAL	LOCKSTILE
V	FIXED LOCKSTILE	FIXED LOCKSTILE
W	DOUBLE INTERLOCK	STANDARD ASTRAGAL
Y	FIXED LOCKSTILE	DOUBLE INTERLOCK
Z	LOCKSTILE	LOCKSTILE
YR	DOUBLE INTERLOCK	FIXED LOCKSTILE
GR	DOUBLE INTERLOCK	LOCKSTILE
LR	REVERSE ASTRAGAL	R.H. INTERLOCK
WR	STANDARD ASTRAGAL	DOUBLE INTERLOCK
DS	DOUBLE INTERLOCK	R.H. INTERLOCK
SD	L.H. INTERLOCK	DOUBLE INTERLOCK



CONFIGURATION NOTES:

1. MAXIMUM DAYLIGHT OPENING OF THE ADJACENT 48" NOMINAL WIDTH PANEL TYPES IS 44 3/16".

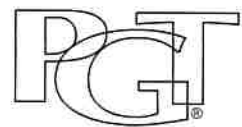

2. MAX. DLO HEIGHT = 75 1/4"

3. WINDOW CONFIGURATIONS INCLUDE BY-PASS, POCKET AND ANY COMBINATION THEREOF (LIMITED TO EIGHT PANELS AND SEVEN TRACK FRAMES) FRAMES OVER 3-TRACKS ARE MADE UP OF THE APPROVED FRAME COMPONENTS SHOWN ON SHEET 10 OF THIS DOCUMENT.

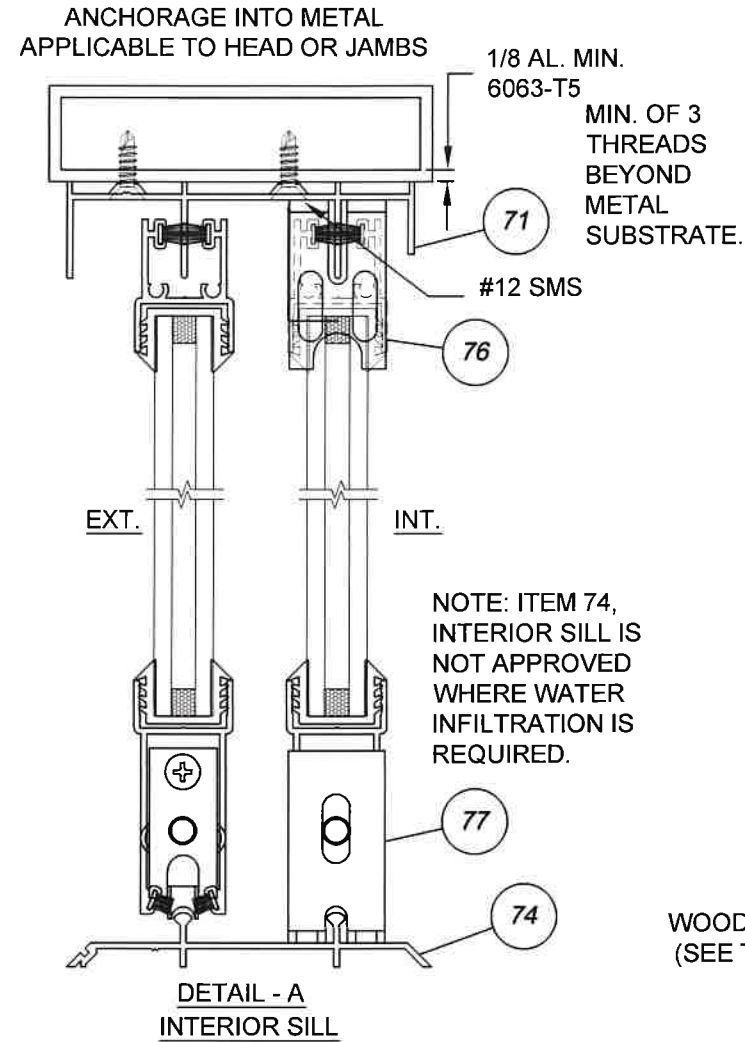
EXAMPLE MAXIMUM CONFIGURATIONS:

- A. EIGHT PANELS ON FOUR TRACKS (CENTER MEET)
- B. FIVE PANELS ON FIVE TRACKS (BY-PASS)

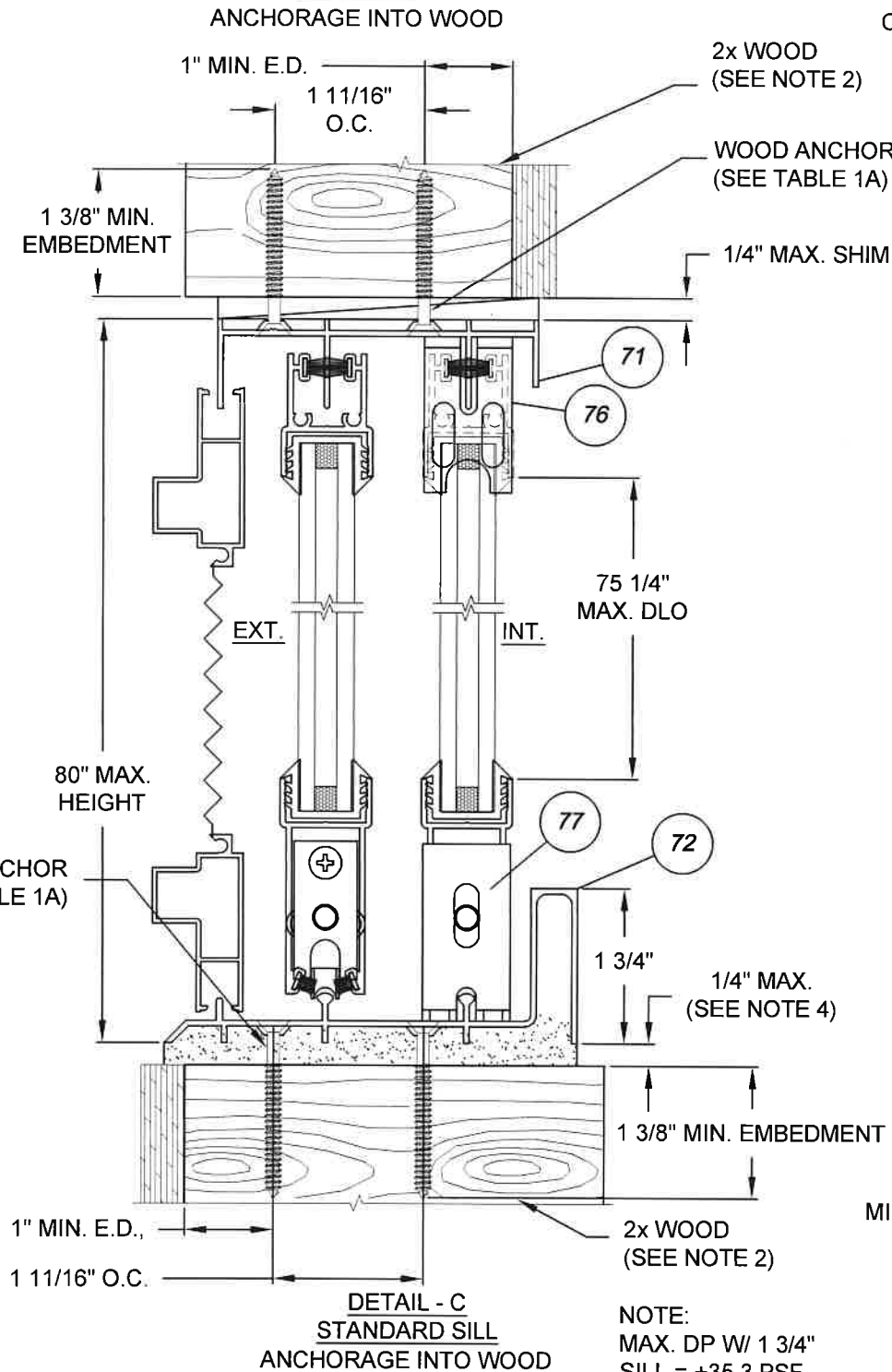
TRACKS IN EXCESS OF THOSE REQUIRED FOR STRUCTURAL WINDOW PANELS MAY BE USED FOR SCREENS.

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: PANEL TYPES & EXAMPLE ELEVATIONS		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By: *	Rev. Date: *	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 1/4"=1'-0"	Sheet: 3 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296 A. LYNN MILLER, P.E. P.E.# 58705

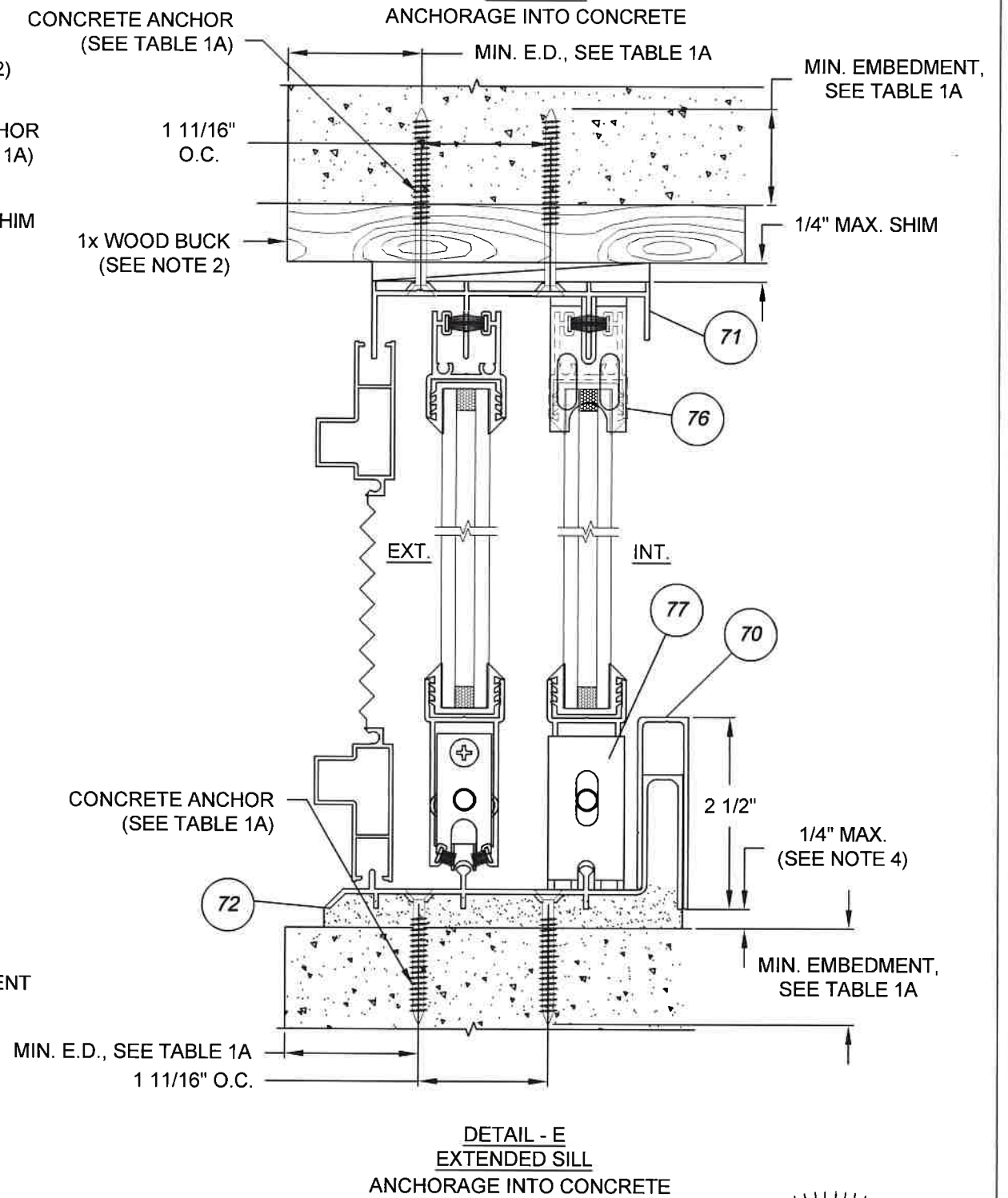
DETAIL - B



DETAIL - D

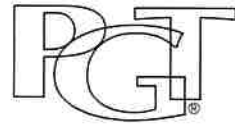
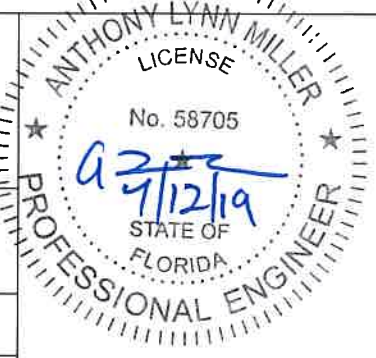


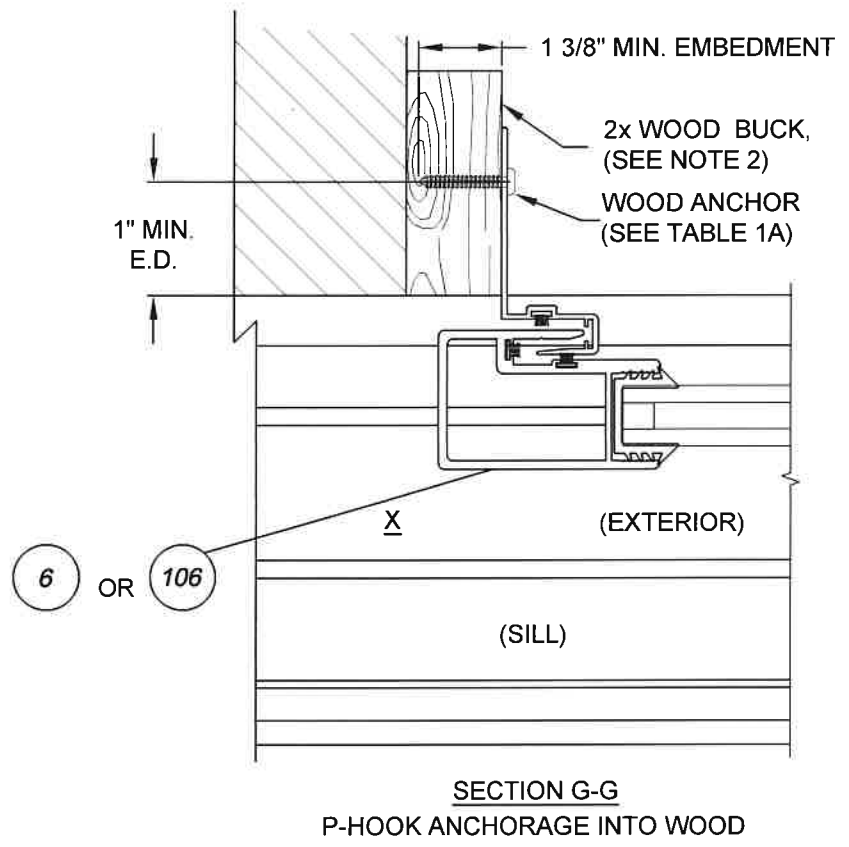
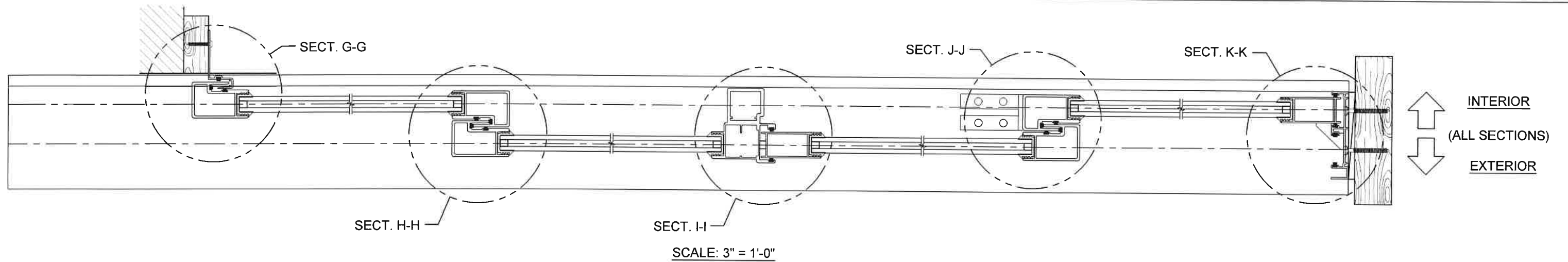
DETAIL - F



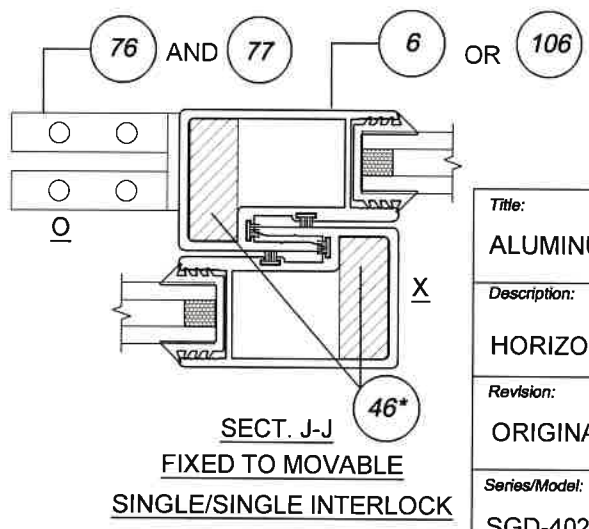
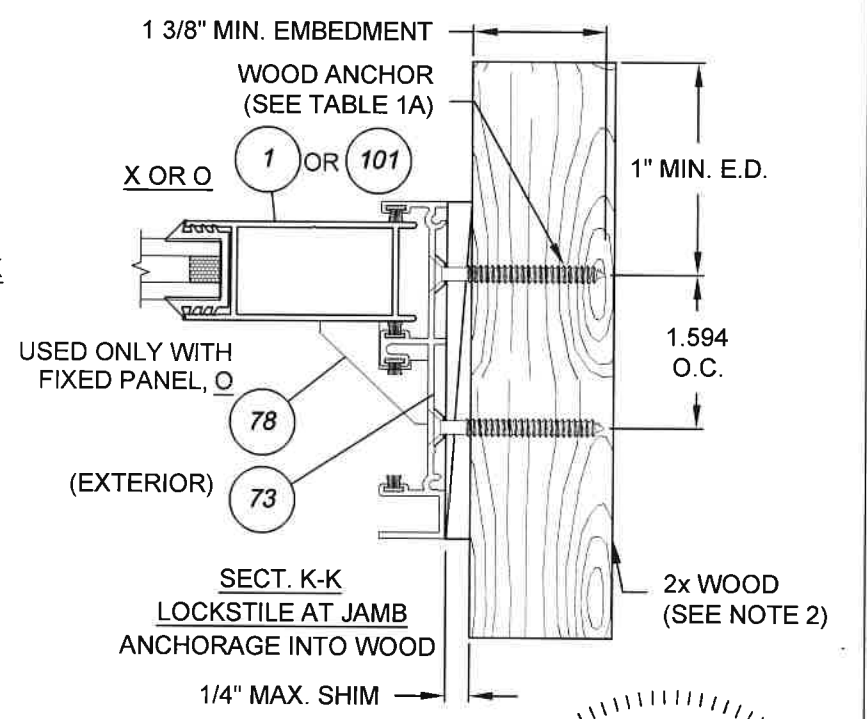
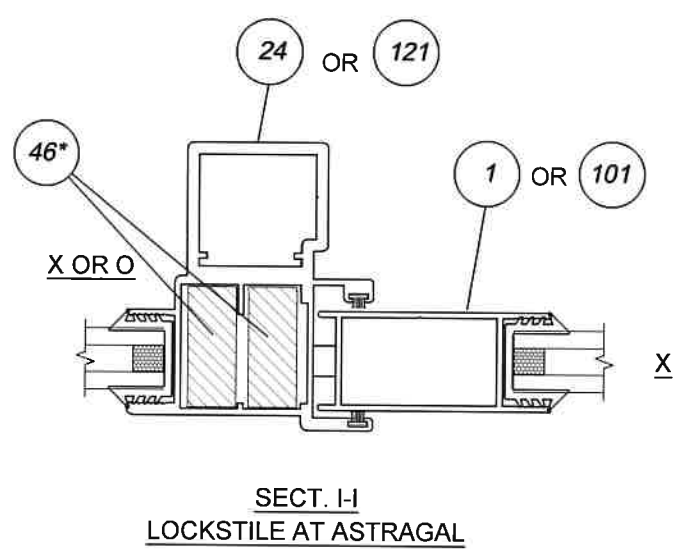
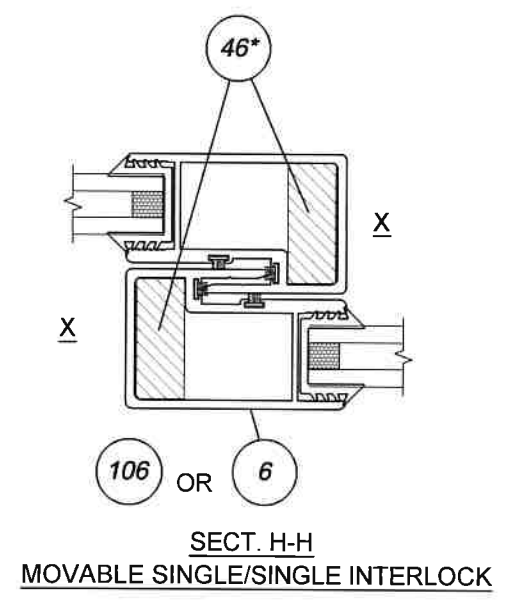
NOTES

1. SEE TABLE 1A FOR ANCHOR TYPES, MINIMUM EDGE DISTANCES, MINIMUM EMBEDMENT, MINIMUM O.C. SPACING AND MINIMUM METAL THICKNESS.
2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 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 AUTHORITY HAVING JURISDICTION. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU.
3. FOR ATTACHMENT TO ALUMINUM: THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME. SEE TABLE 1A FOR ADDITIONAL REQUIREMENTS
4. IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT (3350 PSI MIN.), (DONE BY OTHERS) 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.


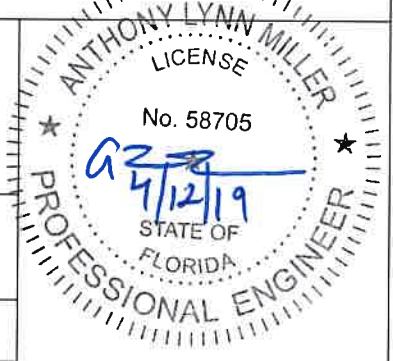
Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK		 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Description: VERTICAL SECTIONS WITH ANCHORAGE		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:		
Series/Model: SGD-4025A-W	Scale: 6'=1'-0"	Sheet: 4 OF 13	Drawing No. SGD4025A-W	Rev. 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296
					A. LYNN MILLER, P.E. P.E.# 58705

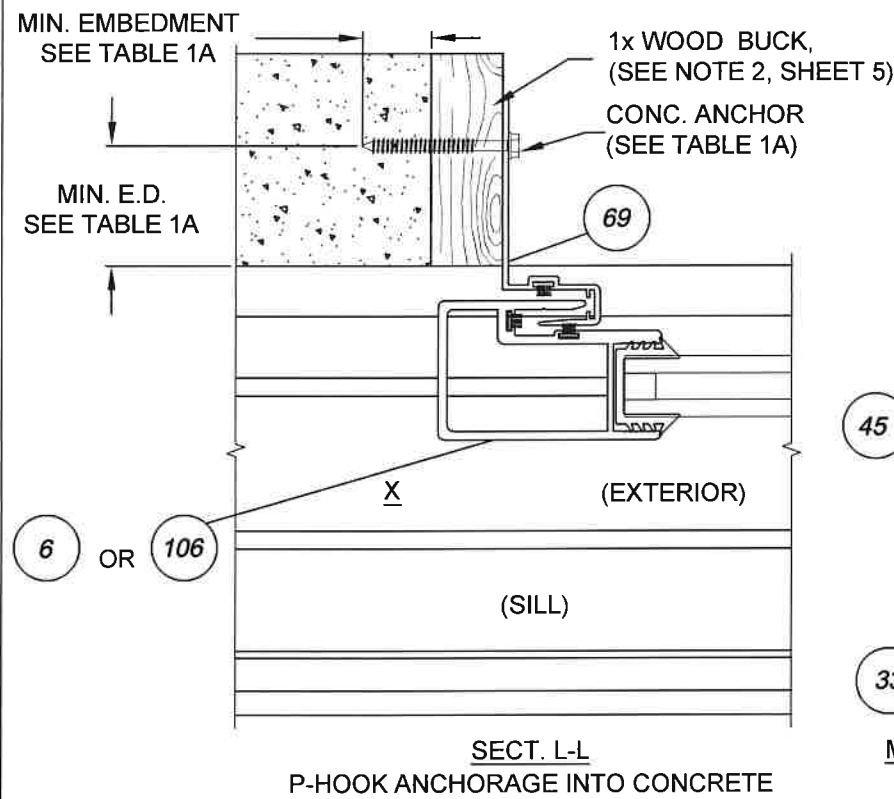
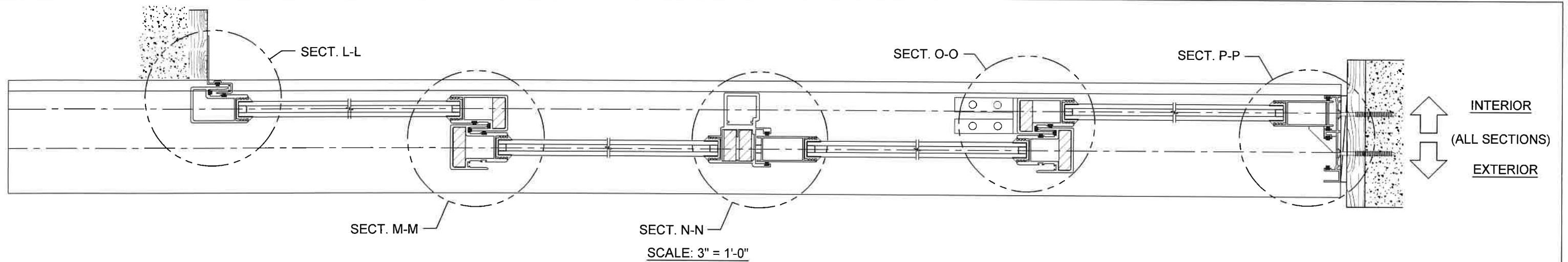


SINGLE/SINGLE INTERLOCK EXAMPLE FOR DESIGN PRESSURES:
 *WITH REINFORCEMENT, SEE TABLE 2. WITHOUT REINFORCEMENT, SEE TABLE 1



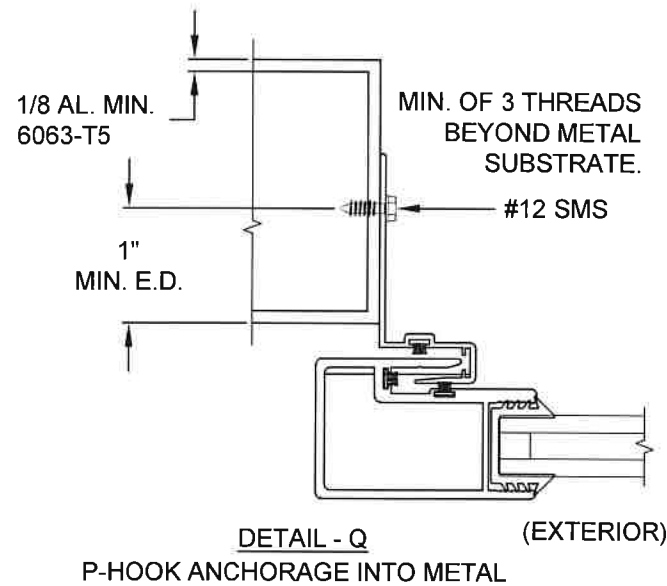
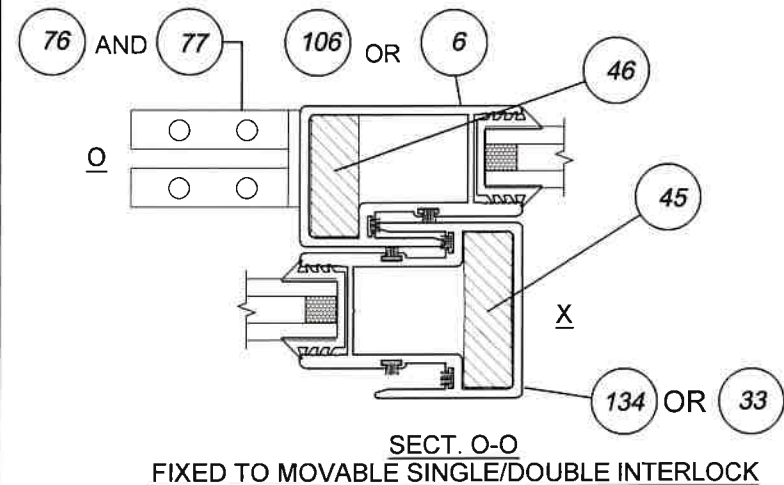
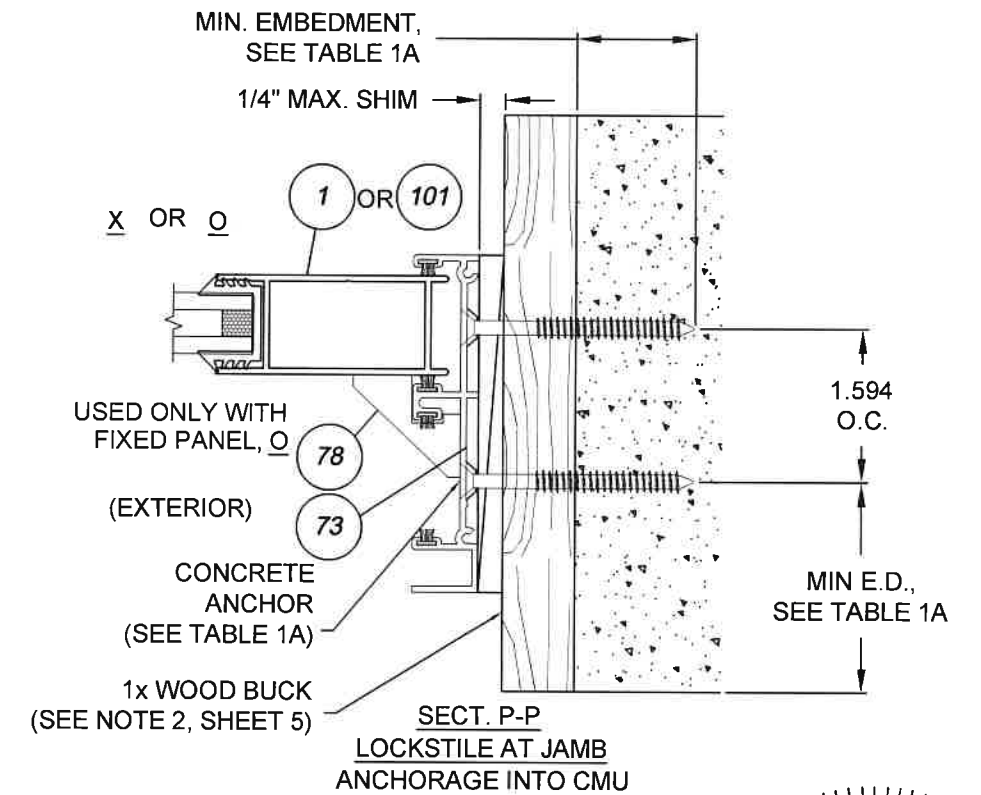
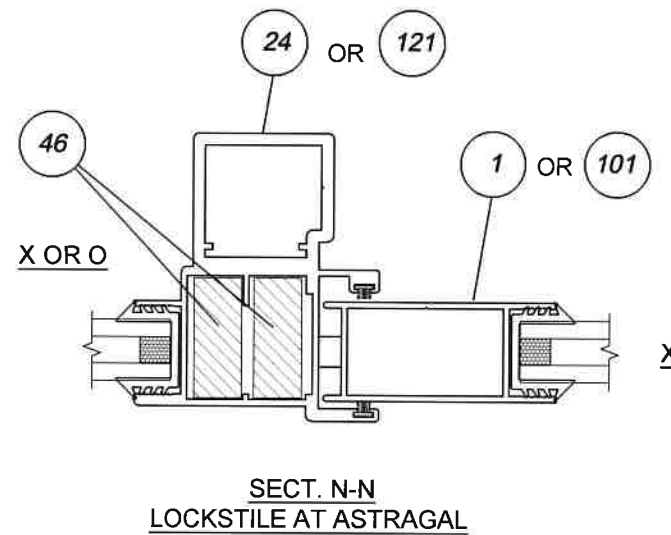
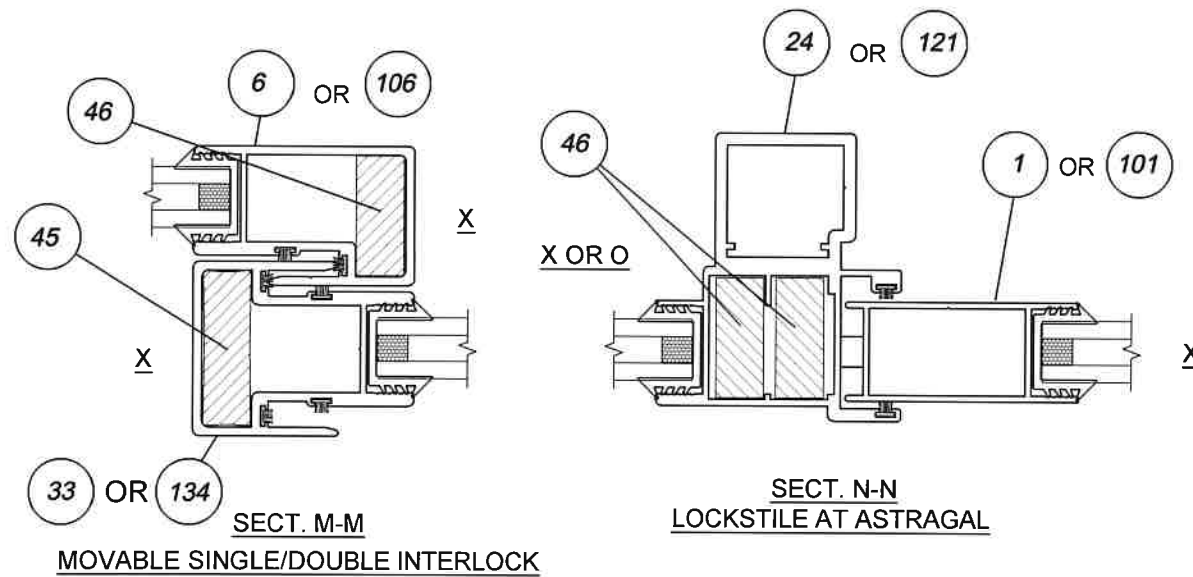
NOTES
 1. SEE TABLE 1A FOR ANCHOR TYPES, MINIMUM EDGE DISTANCES, MINIMUM EMBEDMENT, MINIMUM O.C. SPACING AND MINIMUM METAL THICKNESS.
 2. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE OR CMU.


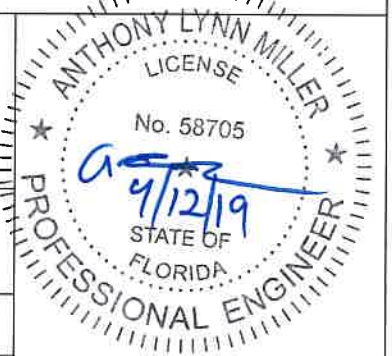
Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK		 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	 A. LYNN MILLER, P.E. P.E.# 58705
Description: HORIZONTAL SECTIONS, TABLES 1-2		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296	A. LYNN MILLER, P.E. P.E.# 58705
Series/Model: SGD-4025A-W	Scale: 6"=1'-0"	Sheet: 5 OF 13	Drawing No. SGD4025A-W		

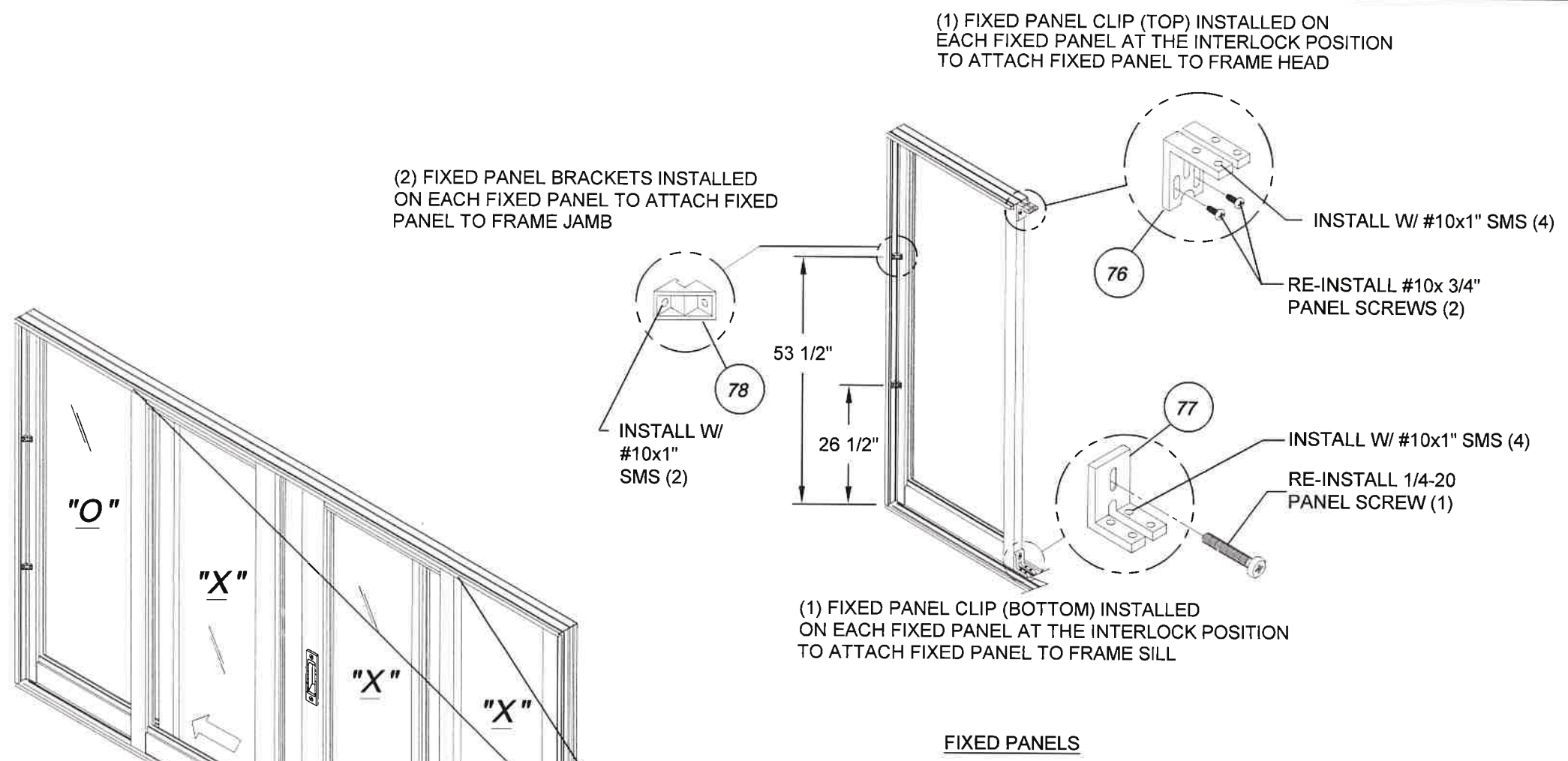


SINGLE/DOUBLE INTERLOCK EXAMPLE FULL REINFORCEMENT
SEE TABLE 3 FOR DESIGN PRESSURES

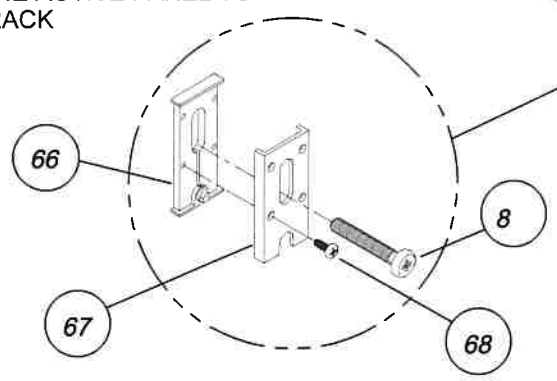
NOTES
SEE NOTES 1-3 ON SHEET 4



Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK		 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	 ANTHONY LYNN MILLER LICENSE No. 58705 9/12/19 STATE OF FLORIDA PROFESSIONAL ENGINEER A. LYNN MILLER, P.E. P.E.# 58705
Description: HORIZONTAL SECTIONS, TABLE 3		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296	A. LYNN MILLER, P.E. P.E.# 58705
Series/Model: SGD-4025A-W	Scale: 6"=1'-0"	Sheet: 6 OF 13	Drawing No. SGD4025A-W		

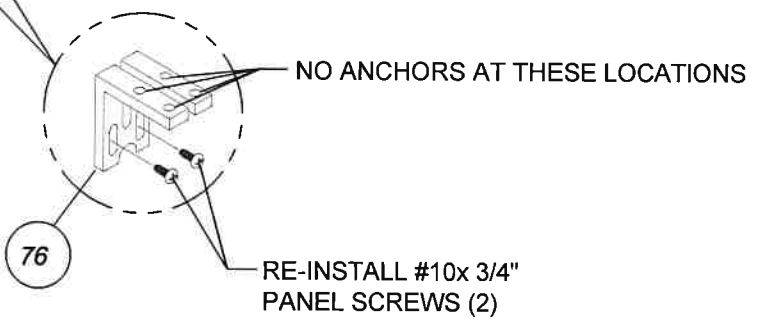


(1) TRACK CLIP ASSEMBLY INSTALLED ON EACH ACTIVE PANEL AT THE INTERKOCK POSITION TO SECURE THE ACTIVE PANEL TO IT'S RESPECTIVE SILL TRACK

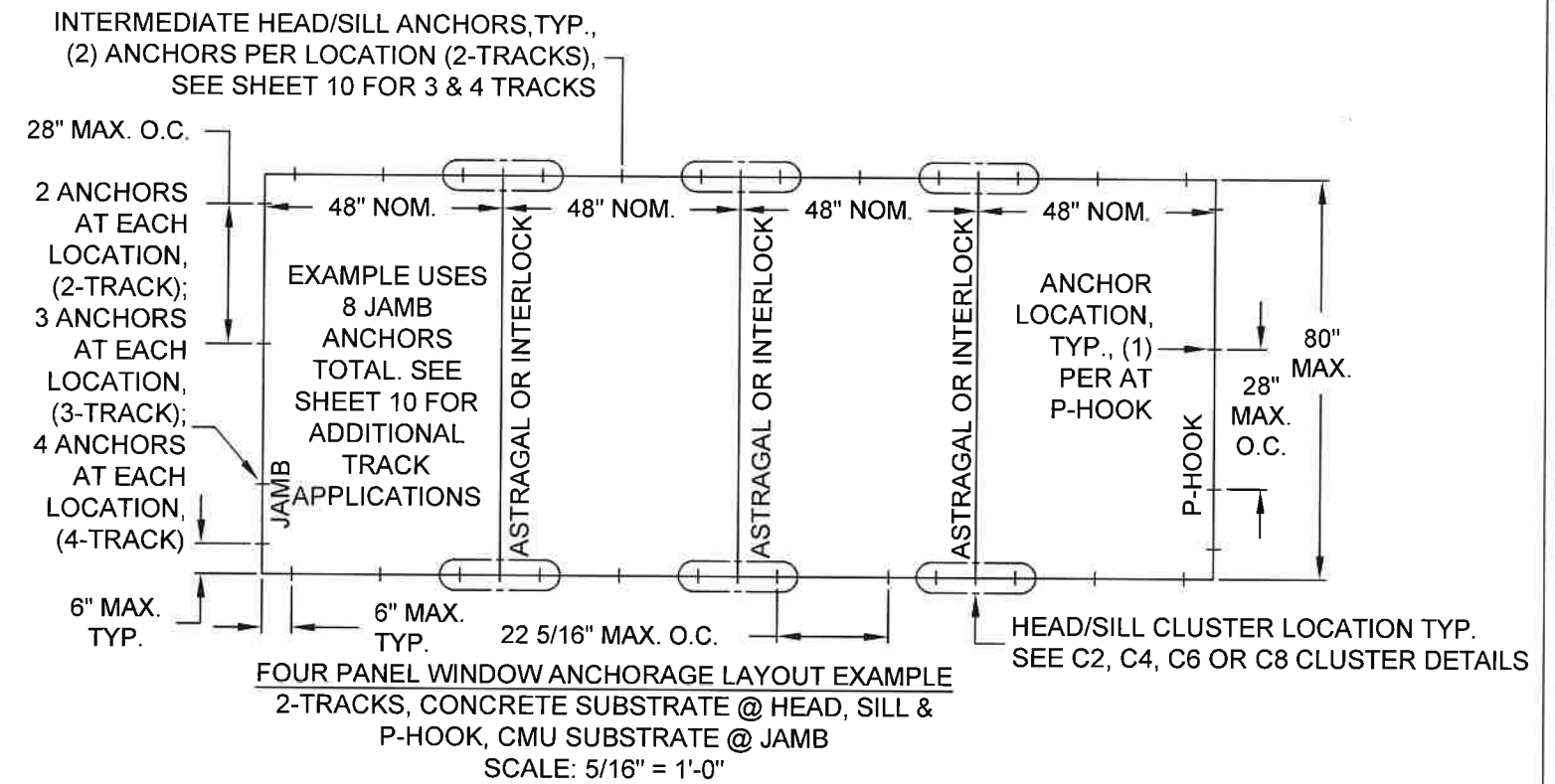
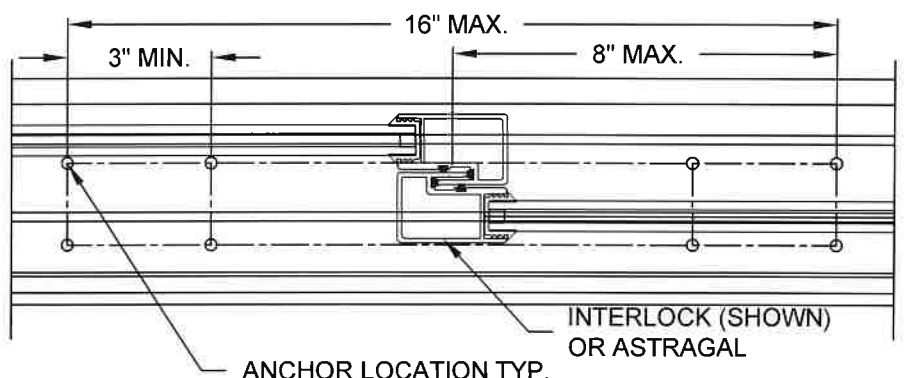
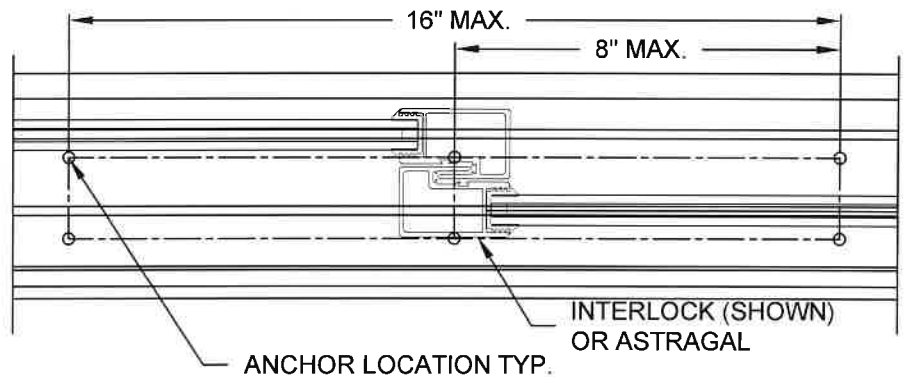
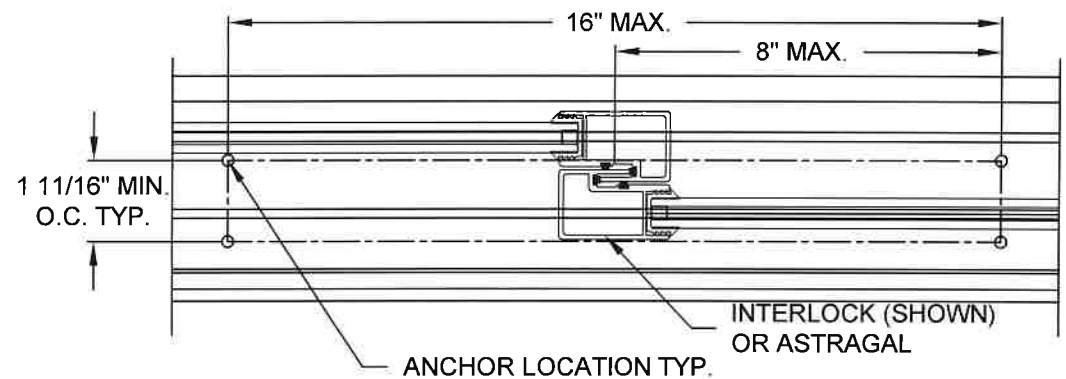
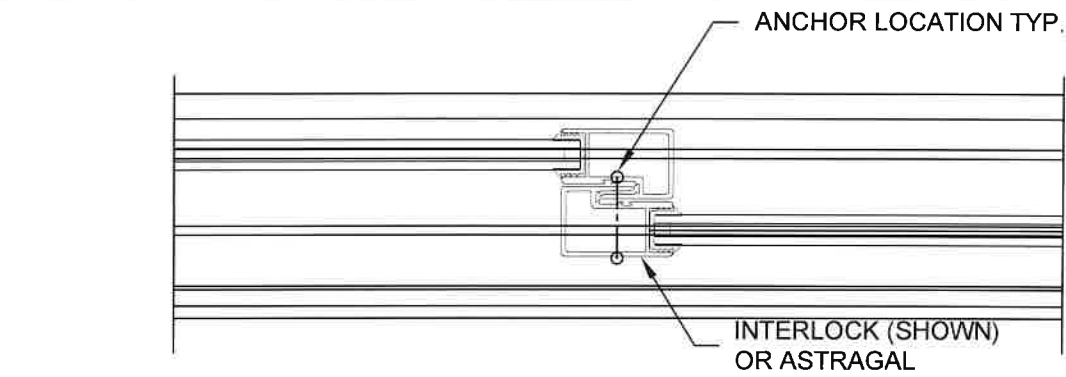


OPERABLE PANELS

(1) FIXED PANEL CLIP (TOP) TO BE ATTACHED TO THE INTERLOCK (ONLY) OF ANY PANEL ON THE OUTER MOST TRACK OF THE FRAME



Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK		PGT	ANTHONY LYNN MILLER LICENSE No. 58705 4/12/19 STATE OF FLORIDA PROFESSIONAL ENGINEER
Description: TRACK & FIXED CLIPS INSTALLATION		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By: *	Rev. Date: *	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: N.T.S.	Sheet: 7 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC ALL RIGHTS RESERVED CERT. OF AUTH. #29296
					A. LYNN MILLER, P.E. P.E.# 58705




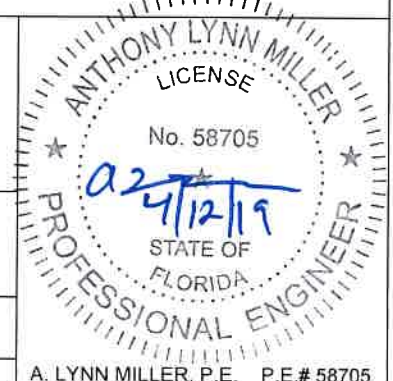
NOTES:

1. ANCHOR QUANTITIES BASED ON THE FOLLOWING SPACING:

JAMBS AND P-HOOKS SPACING - 6" MAX. FROM CORNERS AND 28" MAX. O.C.

HEAD AND SILL SPACING - 6" MAX. FROM CORNERS AND 22 5/16" MAX. O.C.

2. INSTALL PER ANCHOR QUANTITIES OF TABLE 4, USING THE DIMENSIONAL CRITERIA OF NOTE 1. HEAD AND SILL CLUSTER ANCHORS ARE REQUIRED AT ASTRAGAL AND INTERLOCK LOCATIONS OF THEIR RESPECTIVE TRACK SECTIONS. SEE SHEET 10 FOR POTENTIAL ANCHOR LOCATIONS WITHIN HEAD, SILL AND JAMB TRACK SECTIONS.

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: ANCHORAGE SPACING & CLUSTER DETAILS		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 3"=1'-0"	Sheet: 8 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296

MINIMUM ANCHOR REQUIREMENTS



TABLE 4.

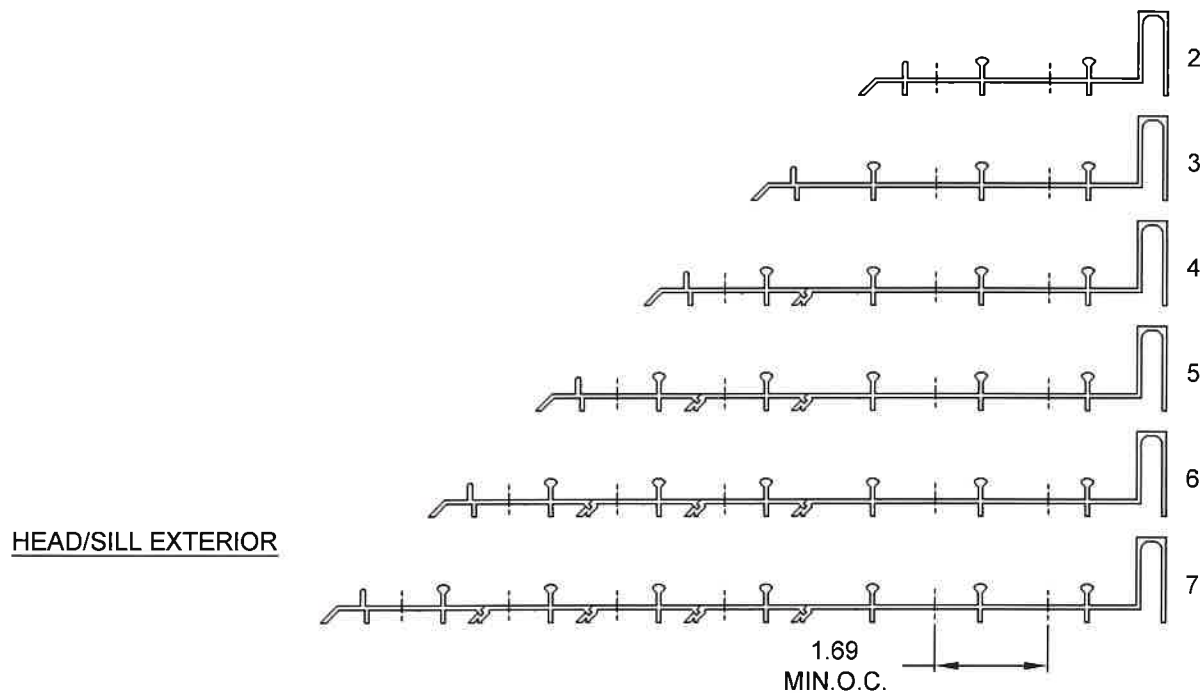
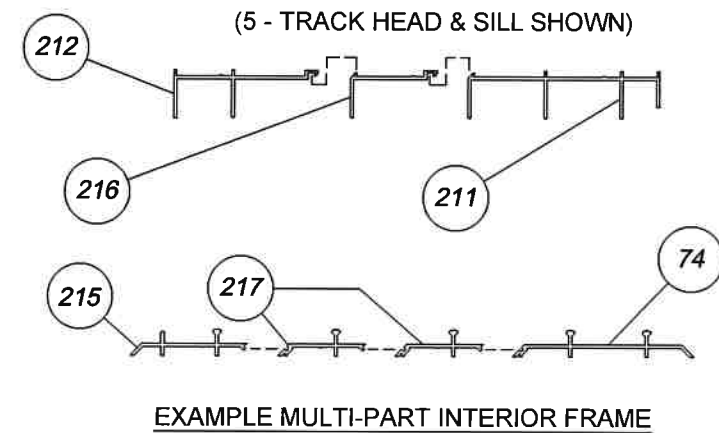
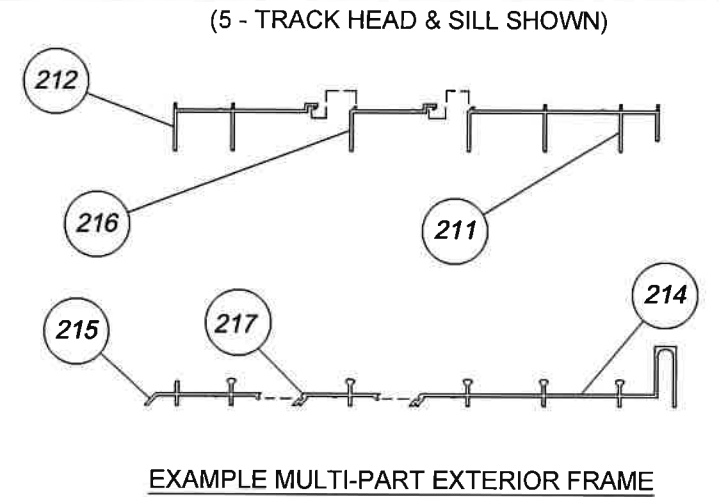
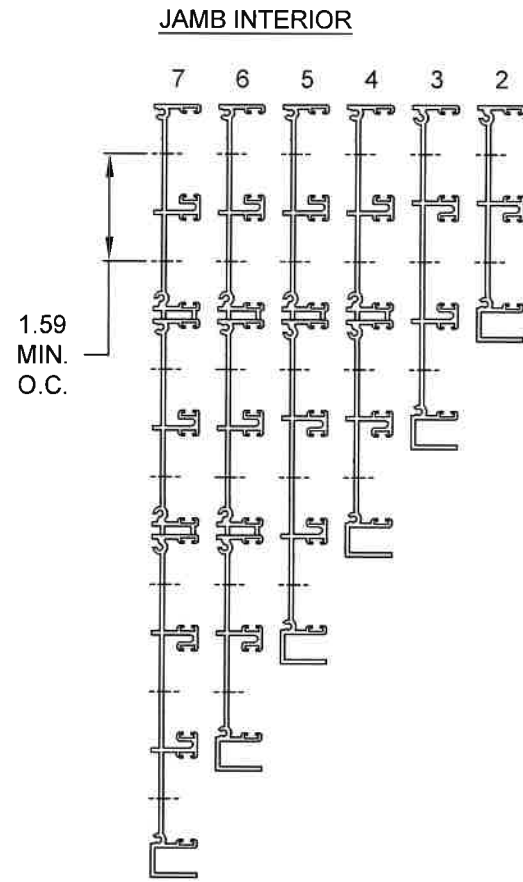
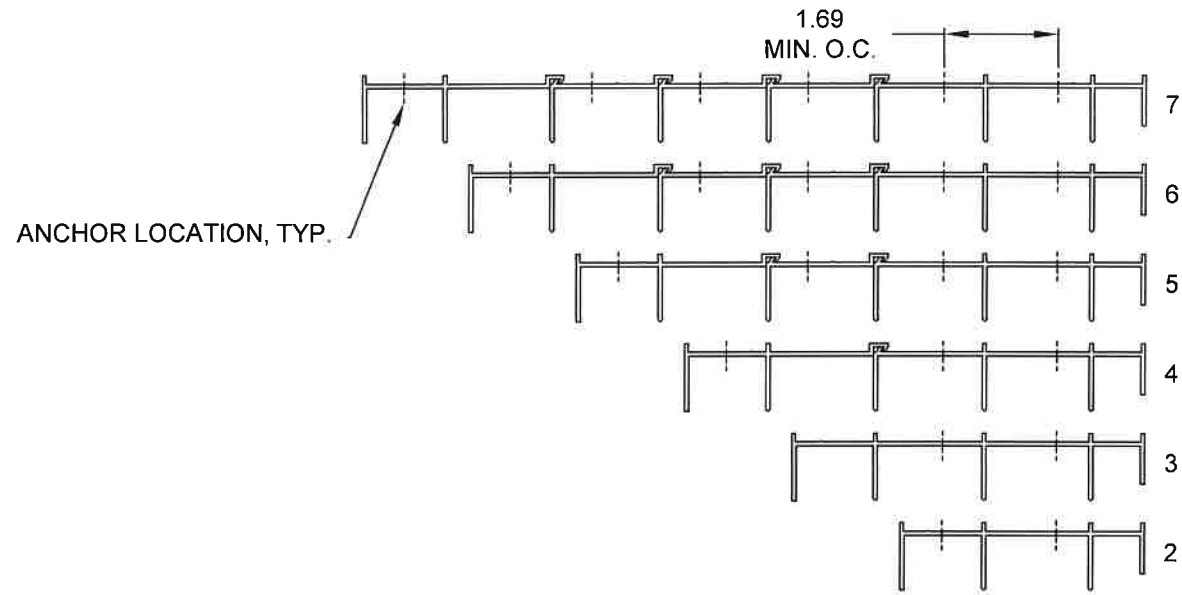
DP TABLE REF. > GLASS TYPE >	TABLE 1.									TABLE 2.									TABLE 3.																										
	1									2,3 OR 4									2,3 OR 4									3 OR 4																	
	SSN (SEE NOTE 2)									SSN (SEE NOTE 2)									SSR (SEE NOTE 2)									SDR (SEE NOTE 2)																	
INTERLOCK & > REINFORCEMENT	HEAD & SILL CLUSTER			JAMB			P-HOOK			HEAD & SILL CLUSTER			JAMB			P-HOOK			HEAD & SILL CLUSTER			JAMB			P-HOOK			HEAD & SILL CLUSTER			JAMB			P-HOOK											
ANCHOR TYPE & SUBSTRATE \	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C									
NOM. PANEL WIDTH x UNIT HT.	A			B			C			A			B			C			A			B			C			A			B			C			A			B			C		
24.000 x 36.000	C4	C4	C4	4	4	4	3	3	3	C4	C4	C4	4	4	6	3	3	3	C4	C4	C4	4	4	6	3	3	3	C4	C4	C4	4	4	6	3	3	3	C4	C4	C4	4	4	6	3	3	3
	C4	C4	C4	6	6	6	3	3	3	C4	C4	C4	6	6	6	3	3	3	C4	C4	C4	6	6	6	3	3	3	C4	C4	C4	6	6	6	3	3	3	C4	C4	C4	6	6	6	3	3	3
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	NOT AVAILABLE									C6	C6	C6	8	8	8	5	5	4	C6	C6	C6	8	8	8	4	5	4	C6	C6	C6	8	8	8	5	5	5	C6	C6	C6	8	8	8	5	5	5
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30.000 x 36.000	C4	C4	C4	4	4	4	3	3	3	C4	C4	C4	6	6	6	4	4	4	C4	C4	C4	6	6	6	4	4	4	C4	C4	C4	6	6	6	4	4	4	C4	C4	C4	6	6	6	4	4	4
	C4	C4	C4	6	6	6	3	3	3	C6	C6	C4	6	6	6	4	4	3	C6	C6	C4	6	6	6	3	4	3	C6	C6	C4	6	6	6	4	4	3	C6	C6	C4	6	6	6	4	4	3
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	NOT AVAILABLE									C6	C6	C6	8	8	8	5	5	4	C6	C6	C6	8	8	8	5	5	4	C8	C8	C6	8	10	10	6	6	5	C8	C8	C6	8	10	10	6	6	5
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	NOT AVAILABLE									C6	C6	C4	8	8	8	5	5	5	C4	C4	C4	8	8	8	4	4	4	C6	C6	C4	8	8	8	5	5	5	C6	C6	C4	8	8	8	5	5	5
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	NOT AVAILABLE									C4	C4	C4	8	8	8	5	5	5	C4	C4	C4	8	8	8	4	4	4	C4	C4	C4	8	8	8	5	5	5	C4	C4	C4	8	8	8	5	5	5
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NOTES:

- GLASS TYPES:
1 - 3/16" ANNEALED
2 - 3/16" TEMPERED
3 - 1/4" TEMPERED
4 - 5/8" TEMPERED I.G.

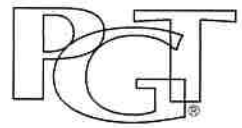
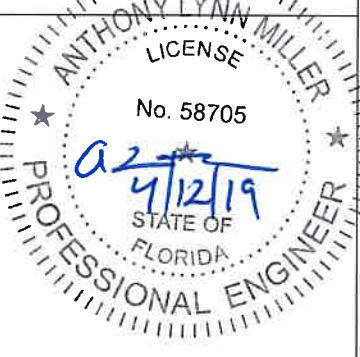
- TABLE ABBREVIATIONS:
SSN - SINGLE/SINGLE WITH NO REINF. AT INTERLOCK & ASTRAGAL, (SHEET 5)
SSR - SINGLE/SINGLE WITH FULL REINF. AT INTERLOCK & ASTRAGAL, (SHEET 5)
SDR - SINGLE/DOUBLE WITH FULL REINF. AT INTERLOCK & ASTRAGAL, (SHEET 6)

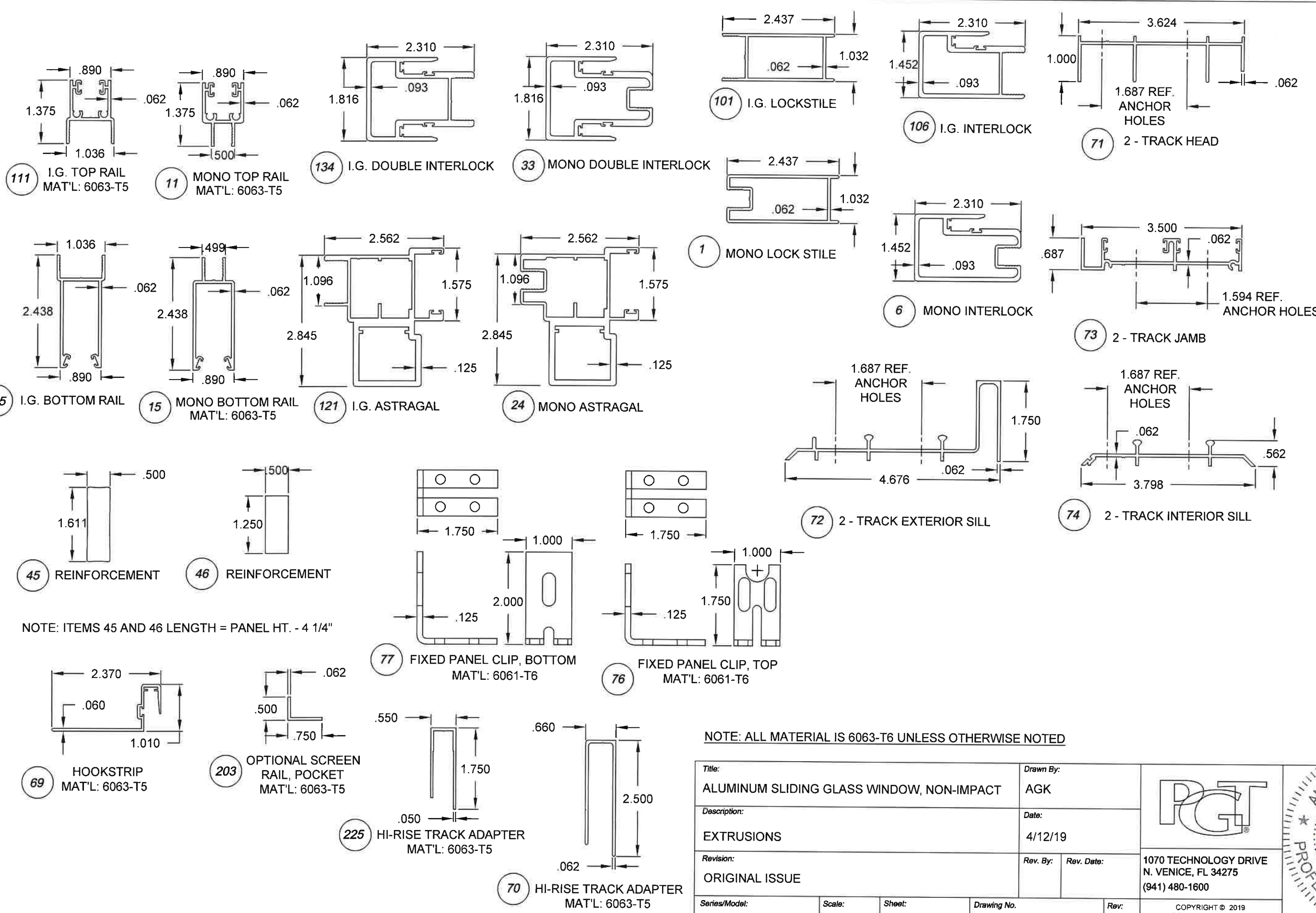
Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: ANCHORAGE TABLE		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 3"=1'-0"	Sheet: 9 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296
					A. LYNN MILLER, P.E. P.E.# 58705



NOTES ON POTENTIAL ANCHOR LOCATIONS:

- ANCHOR CLUSTER AND QUANTITY INFORMATION FROM TABLE 4, SHEET 9, APPLIES AS THE MINIMUM REQUIREMENT FOR ALL TRACK CONFIGURATIONS. ANCHORS MAY BE STAGGERED WITHIN TRACK SECTIONS EXCEPT THAT THE ASTRAGAL AND INTERLOCK CLUSTERS MUST BE LOCATED IN THE TRACK ON WHICH ASTRAGAL AND/OR INTRLOCKS ARE POSITIONED WHEN THE WINDOW(S) ARE IN THE CLOSED AND LOCKED POSITION. MINIMUM ON-CENTER DIMENSIONS FOR ANCHORS ARE 1.69" AT HEAD AND SILL AND 1.59" FOR JAMBS.
- EMBEDMENT AND EDGE DISTANCES SHOWN FOR 2 TRACK FRAMES ON SHEETS 4-6 ARE ALSO APPLICABLE TO ALL MULTI-TRACK SECTIONS.

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: FRAME, POTENTIAL ANCHOR LOCATIONS		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 3"=1'-0"	Sheet: 10 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296
					A. LYNN MILLER, P.E. P.E.# 58705



111 I.G. TOP RAIL
MAT'L: 6063-T5

11 MONO TOP RAIL
MAT'L: 6063-T5

134 I.G. DOUBLE INTERLOCK

33 MONO DOUBLE INTERLOCK

101 I.G. LOCKSTILE

106 I.G. INTERLOCK

71 2-TRACK HEAD

115 I.G. BOTTOM RAIL

15 MONO BOTTOM RAIL
MAT'L: 6063-T5

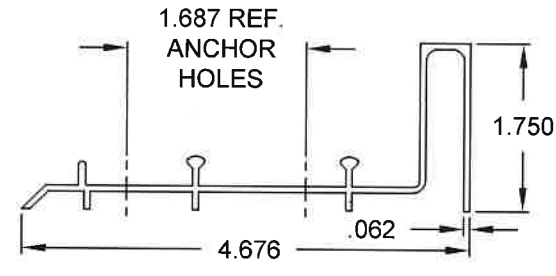
121 I.G. ASTRAGAL

24 MONO ASTRAGAL

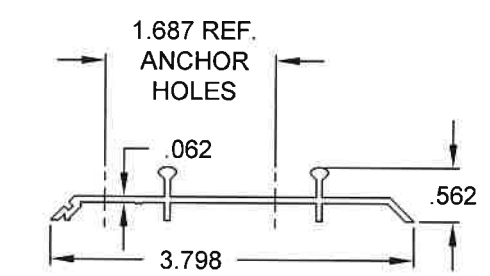
1 MONO LOCK STILE

6 MONO INTERLOCK

73 2-TRACK JAMB



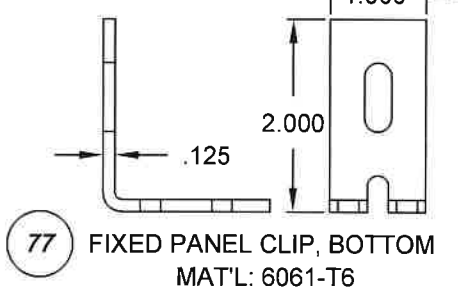
72 2-TRACK EXTERIOR SILL



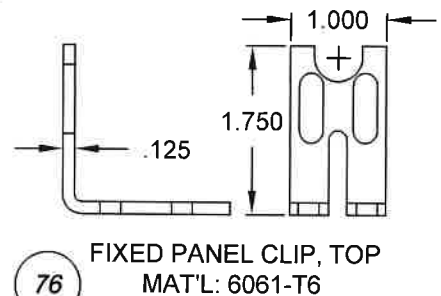
74 2-TRACK INTERIOR SILL

45 REINFORCEMENT

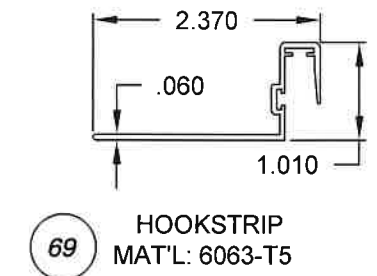
46 REINFORCEMENT



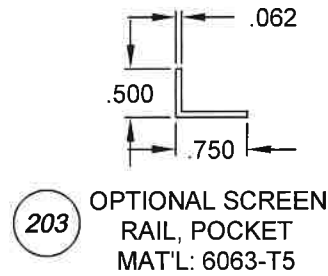
77 FIXED PANEL CLIP, BOTTOM
MAT'L: 6061-T6



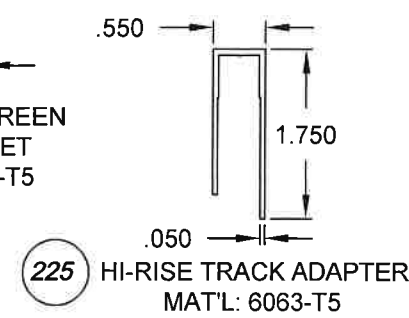
76 FIXED PANEL CLIP, TOP
MAT'L: 6061-T6



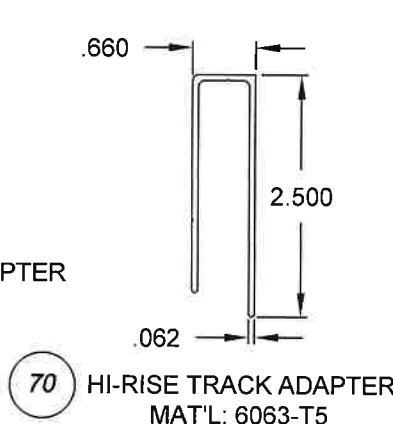
69 HOOKSTRIP
MAT'L: 6063-T5



203 OPTIONAL SCREEN RAIL, POCKET
MAT'L: 6063-T5




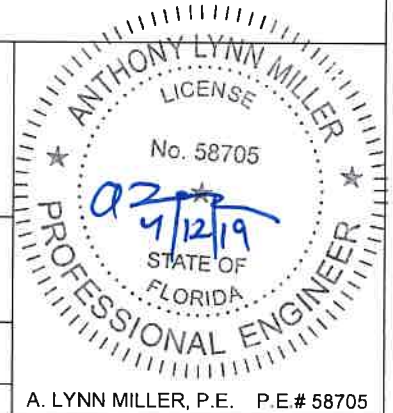
225 HI-RISE TRACK ADAPTER
MAT'L: 6063-T5



70 HI-RISE TRACK ADAPTER
MAT'L: 6063-T5

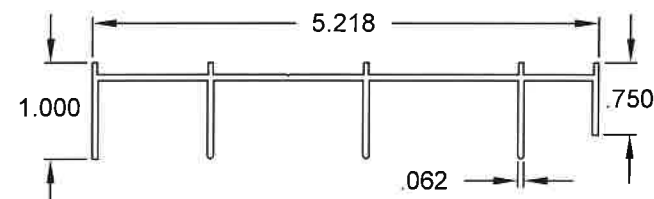
NOTE: ALL MATERIAL IS 6063-T6 UNLESS OTHERWISE NOTED

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK		 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600
Description: EXTRUSIONS		Date: 4/12/19		
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296
Series/Model: SGD-4025A-W	Scale: 6"=1'-0"	Sheet: 11 OF 13	Drawing No. SGD4025A-W	

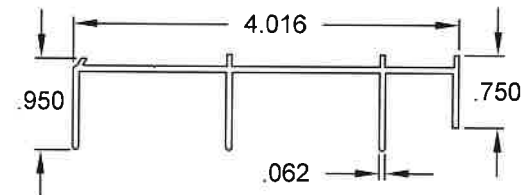


A. LYNN MILLER, P.E. P.E.# 58705

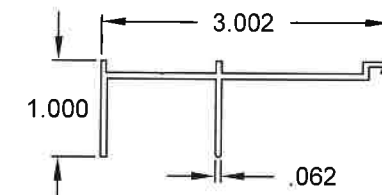
ADDED FRAME COMPONENTS



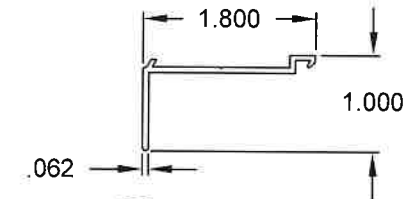
208 3 - TRACK HEAD



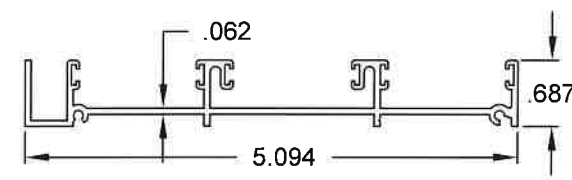
211 ADD-ON TRACK HEAD



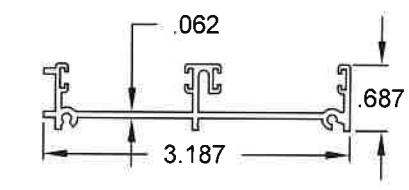
212 ADD-ON TRACK, FOR FRAME HEAD



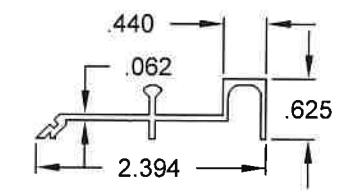
216 ADD-ON HEAD



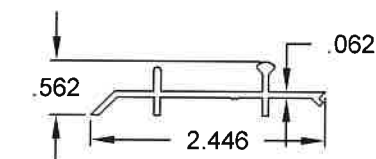
209 3 - TRACK JAMB



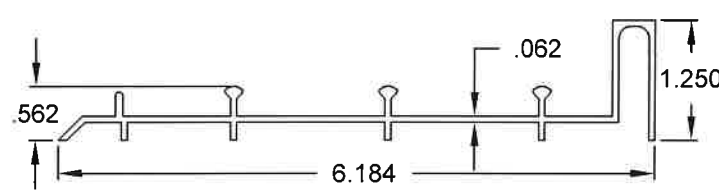
213 2 - TRACK FRAME, JAMB ADD-ON



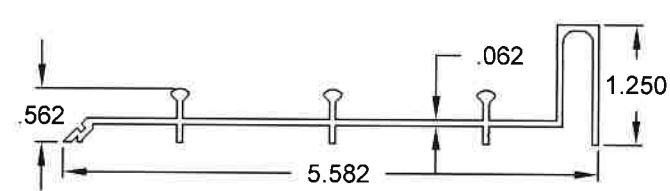
222 1 - TRACK SILL, LOW-RISE EXTERIOR W/ ADD-ON



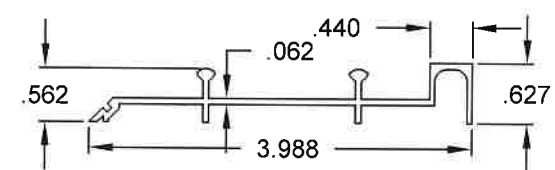
215 ADD-ON TRACK W/ SCREEN FOR FRAME SILL



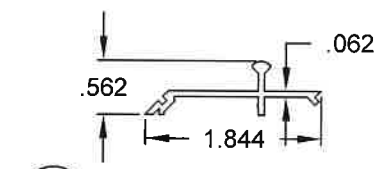
210 3 - TRACK SILL, EXTERIOR W/ SCREEN RAIL



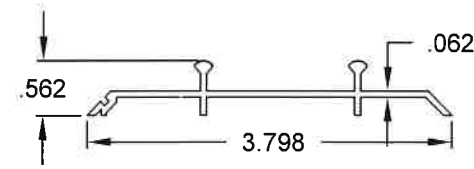
214 3 - TRACK ADD-ON SILL



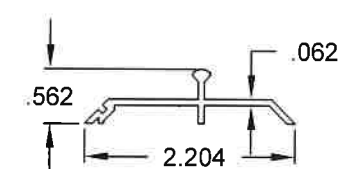
218 2 - TRACK SILL, LOW-RISE EXTERIOR W/ ADD-ON



217 1 - TRACK ADD-ON SILL


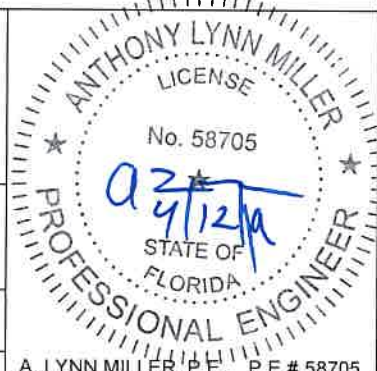


74 2 - TRACK SILL, INTERIOR W/ ADD-ON




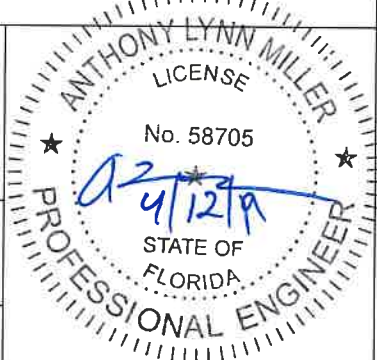
220 1 - TRACK SILL, INTERIOR W/ ADD-ON

NOTE: ALL MATERIAL IS 6063-T6 UNLESS OTHERWISE NOTED

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: EXTRUSIONS CONTINUED		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By: *	Rev. Date: *	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: 6"=1'-0"	Sheet: 12 OF 13	Drawing No. SGD4025A-W	Rev. 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC ALL RIGHTS RESERVED CERT. OF AUTH. #29296 A. LYNN MILLER, P.E. P.E.# 58705

ITEM	PART #	DESCRIPTION	PGT#
1	708	LOCKSTILE, MONOLITHIC	69362
2		LATCH ASSEMBLY (LOCK)	7LOCK
3		LATCH ASSEMBLY (DUMMY)	7DUMY
4		#10-32 X 1.25 PH. FL. MS (LATCH)	71114K
6	705	INTERLOCK (STD.), MONOLITHIC	69409
7	1119	#10 X .750 PH. PN. SMS - S.S.	7S134X
8		1/4-20 X 1.125 PH. PN. MS	71420X118PPMSX
9	1209	WSTP, .187 X 320 - PILE	6FELTK
11	706	TOP RAIL, MONOLITHIC	68172
12	1281	WSTP, .187 X .290 FIN SEAL	61281W
13	725B	TOP PANEL GUIDE	41801
15	707C	BOTTOM RAIL, MONOLITHIC	68173
17	726	BOTTOM PANEL GUIDE	41802
18	661	SINGLE ROLLER ASSY.	7SRAZ
19	661	SINGLE ROLLER ASSY. - S.S.	7SRA X
20	683	TANDEM ROLLER ASSY.	7683Z
21	683	TANDEM ROLLER ASSY. - S.S.	7683SS
23	609	ASTRAGAL, MONOLITHIC	68315
24	720	ASTRAGAL (H.D.), MONOLITHIC	69492
26	653	LATCH KEEPER	7SDKEEP
27	653	LATCH KEEPER - S.S.	7SDKEEPX
28		#8 X .312 PH. TR. SMS	78X56A
29	729	JAMB BUMPER	72087K
30		#6 X .375 PH. PN. SMS	76X38PPA
31	663/664	BUMPER SHIM (.030 OR .060)	41831
33	734	DOUBLE INTERLOCK (STD.), MONO.	69494
36	1007	GLAZING VINYL - 3/16	6T304
37		GLAZING VINYL - 1/4	614GLK
38		3/16" ANNEALED GLASS	
39		3/16" TEMPERED GLASS	
40		1/4" TEMPERED GLASS	
42	645	ADD-ON STILE (OXO ONLY)	69112
45	755	1/2 X 1 5/8 REINF. - ALUM	6755M
46	1214	1/2 X 1 1/4 REINF. - ALUM.	61214M
49	749	REINFORCEMENT SPRING CLIP	7BRKTM25
51	1040	MORTICE LOCK (DEAD LATCH)	71040
52	1040-2	MORTICE LOCK (DEAD LATCH) S.S.	71040X
53		CYLINDER/HOUSING ASSY. (MORTICE)	70288K
54	1016	#8 X .625 PH. FL. SMS	7858ZA
55	657	BACKING PLATE (MORTICE)	41830N
56	1045	MORTICE HANDLE SET	71045
57		COVER PLATE	7VT43
58	659	MORTICE LATCH KEEPER	7SDSP5X1
60	1239	3/16" APPLIED MUNTIN	68421
61	665	COLONIAL ENDPIECE	41628

ITEM	PART #	DESCRIPTION	PGT#
62	522	COLONIAL INTERSECTION	41630
63	124	APPLIED COLONIAL MUNTIN	66631
64	1240	1/16 X 1 FLATBAR	68926T52
66	754	TRACK CLIP GUIDE	41754B/W
67	756	TRACK CLIP COVER	6756B/W
68		#6 X 3/8 PP SMS (18-8 SS)	76X38PPA X
69	740	HOOKSTRIP (P-HOOK)	63713
70	722A	HIGH-RISE TRACK ADAPTER	69371
71	702	2-TRACK HEAD	68179
72	703B	2-TRACK EXTERIOR SILL	6703B
73	704	2-TRACK JAMB	68180
74	637	2-TRACK INTERIOR SILL	68275
76	717	FIXED PANEL CLIP, TOP	7LA13A
77	717B	FIXED PANEL CLIP, BOTTOM	7717FPCA
78	646	FIXED PANEL BRACKET	41814
90	1136	#6 X 1/2 PP SMS	76X12A
101	736	LOCKSTILE, I.G. GLASS	60392
106	735	INTERLOCK (STD.) I.G. GLASS	60393
111	618	TOP RAIL, I.G. GLASS	69088
115	619	BOTTOM RAIL, I.G. GLASS	69089
121	737	ASTRAGAL, I.G. GLASS	60394
130		5/8" I.G. GLASS; 3/16" TEMPERED 1/4" SPACE, 3/16" TEMPERED	
131	1006	GLAZING VINYL - INSULATED GLASS	658GLK
134	745	DOUBLE INTERLOCK (STD.), I.G. GLASS	60551
201	629	1 - TRACK HEAD, POCKET DOOR	68176
202	628	1 - TRACK JAMB, POCKET DOOR	6628
203	666	OPT. SCREEN RAIL, POCKET DOOR	61394
204	627	1 - TRACK SILL, EXT. POCKET DOOR	68178M
208	631	3 - TRACK HEAD	68182
209	632	3 - TRACK JAMB	68183
210	633	3 - TRACK SILL, EXT. W/ SCREEN RAIL	68184M
211	613	ADD-ON TRACK HEAD	68187
212	614	ADD-ON TRACK FOR FRAME HEAD	68185
213	617	2 - TRACK FRAME JAMB, ADD-ON	68188
214	615	3 - TRACK SILL, ADD-ON	68189M
215	616	ADD-ON TRACK W/ SCREEN FOR SILL	68190M
216	634	ADD-ON HEAD	68186
217	635	ADD-ON SILL	68191M
218	638	LOW-RISE 2 - TRACK SILL, EXTERIOR	68952M
220	636	1 - TRACK SILL, INTERIOR	68274M
222	671	LOW-RISE 1 - TRACK SILL, EXTERIOR	60803M
225	732	HIGH-RISE TRACK ADAPTER	68313M

Title: ALUMINUM SLIDING GLASS WINDOW, NON-IMPACT		Drawn By: AGK			
Description: PARTS LIST		Date: 4/12/19			
Revision: ORIGINAL ISSUE		Rev. By:	Rev. Date:	1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
Series/Model: SGD-4025A-W	Scale: N.T.S.	Sheet: 13 OF 13	Drawing No. SGD4025A-W	Rev: 0	COPYRIGHT © 2019 PGT INDUSTRIES, INC. ALL RIGHTS RESERVED CERT. OF AUTH. #29296 A. LYNN MILLER, P.E. P.E.# 58705