Engineering Evaluation Report #770W-08132026

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

Product Description:
SGD770-W Series Impact-resistant Aluminum Sliding Glass Window, (LM & SM); FL Approval #1844

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 SGD770W-LM-HVHZ, signed and sealed by A. Lynn Miller, P.E.

2. Test Report Nos.:

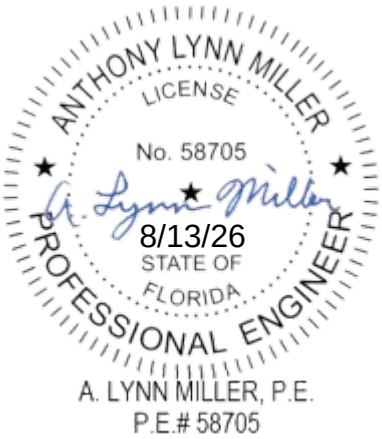
FTL-5980, FTL-5993, FTL-6001, FTL-6014, FTL-6015, FTL-6017, FTL-6022, FTL-6023, FTL-6024, FTL-6025, FTL-6028, FTL-6031, FTL-6033, FTL-6036 & FTL-7554; signed and sealed by Idalmis Ortega, P.E.; Fenestration Testing Laboratories, Medley, FL 33166

QAI 21-1218, 1241 & 1040; signed and sealed by Idalmis Ortega, P.E.; QAI: QAI Laboratories

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

3. Calculations, signed and sealed by A. Lynn Miller, P.E., dated 12/20/22.

Limitations and Conditions of use:
• Units must be glazed per ASTM E1300-24, 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 documents.



SERIES SGD770W IMPACT RESISTANT SLIDING GLASS WINDOW INCLUDING POCKETS & 90° / 135° CORNERS

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. FOR INSULATED GLASS INSTALLATIONS ABOVE 30 ft IN THE HVHZ, THE OUTBOARD LITE (GAP) MUST TEMPERED.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED IN 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 AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER (EOR) OR ARCHITECT OF RECORD (AOR).

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

5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.

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

7) 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.

8) REFER TO CURRENT FLORIDA BUILDING CODE FOR EGRESS REQUIREMENTS.

9) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MIN. 1/4" THICK & 2400 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.

FLORIDA PRODUCT APPROVAL #7045

TABLE A

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 SMS 18-8, 316, 410 SS	All	Southern Pine (SG = 0.55)	3/16"	1"	1-3/8"
			6063-T5 Aluminum	3/8"	3/16"	0.077" (10 Ga)
			A36 Steel	3/8"	3/16"	0.060"
			Gr. 33 Steel Stud	3/8"	3/16"	0.057" (16 Ga)
	1/4" Wet Set Aggre-Gator	All	Concrete (min. 4,22 ksi)	1-1/2"	3"	1-3/8"
		Jamb / P-Hook	Grouted Block (ASTM C90)	3"	3"	3"
		Jamb / P-Hook	Ungrouted Block (ASTM C90)	3"	3"	1-1/8"
		All	Southern Pine (SG = 0.55)	3"	3"	1-3/8"
B	#12 SMS Carbon Steel	All	Southern Pine (SG = 0.55)	3/16"	1"	1-3/8"
			6063-T5 Aluminum	3/8"	3/16"	0.077" (10 Ga)
			A36 Steel	3/8"	3/16"	0.060"
			Gr. 33 Steel Stud	3/8"	3/16"	0.057" (16 Ga)
C	1/2" Steel UltraCon	Head / Sill	Concrete (min. 3 ksi)	1-1/2"	3"	1-3/8"
		Jamb / P-Hook	Concrete (min. 3 ksi)	3"	3"	1-3/8"
		Jamb / P-Hook	Ungrouted Block (ASTM C90)	3"	3"	1-1/4"
		All	Southern Pine (SG = 0.55)	3"	3"	1-3/8"
D	1/4" 410 SS Crete Flex	Head / Sill	Concrete (min. 3.25 ksi)	3"	3"	1-3/8"
		Jamb / P-Hook	Concrete (min. 3.25 ksi)	3"	6"	1-3/4"
		Jamb / P-Hook	Ungrouted Block (ASTM C90)	3-1/2"	6"	1-1/4"
		All	Southern Pine (SG = 0.55)	3"	3"	1-3/8"

1) MIN. OF 2 THREADS BEYOND THE METAL SUBSTRATE.
2) ALL SCREW/ANCHOR TYPES ARE APPLICABLE.
3) SS FASTENERS SHALL BE MIN 316 GRADES FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.
5) TUNNEL/CUT-OUT JAMB MAY BE USED FOR SINGLE DOOR APPLICATIONS.

DESIGN PRESSURE RATING
SEE TABLES 1 & 2

MAXIMUM TEST PRESSURE
50% OF H.D.P.

IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT
MISSILE LEVEL C

GENERAL NOTES	1
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WHERE THE PRODUCT WILL BE INSTALLED WITHIN 5,000 FEET OF A SALTWATER COASTLINE IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING ON BEHALF OF THE FBC, RESIDENTIAL

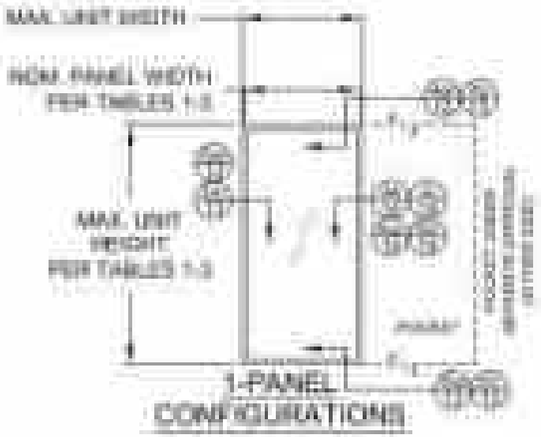
PGT
PGT INDUSTRIES
1070 PGT TRAIL
NORTH VENICE, FL 34275
941-486-0600

ALUMINUM SLIDING GLASS WINDOW
GEN. NOTES AND ANCHOR

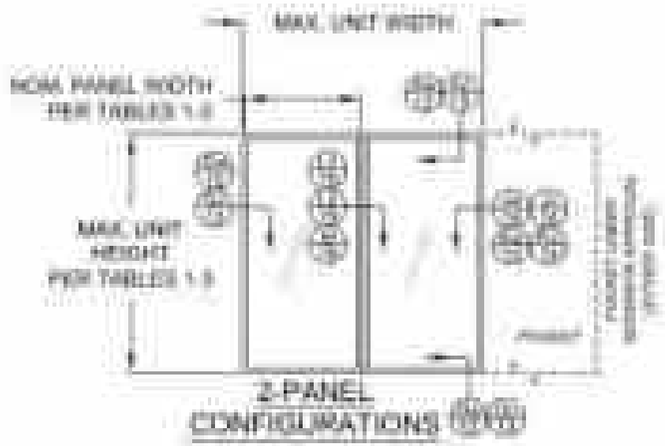
DRAWN BY	EDS
APPROVED	DMO
DATE	05/21/15
SCALE	NTS
SHEET NO.	1 OF 22
DRAWING NO.	SGD770W

WRIGHT-LYON SEALS
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

EXAMPLE CONFIGURATIONS



1-PANEL CONFIGURATIONS



2-PANEL CONFIGURATIONS

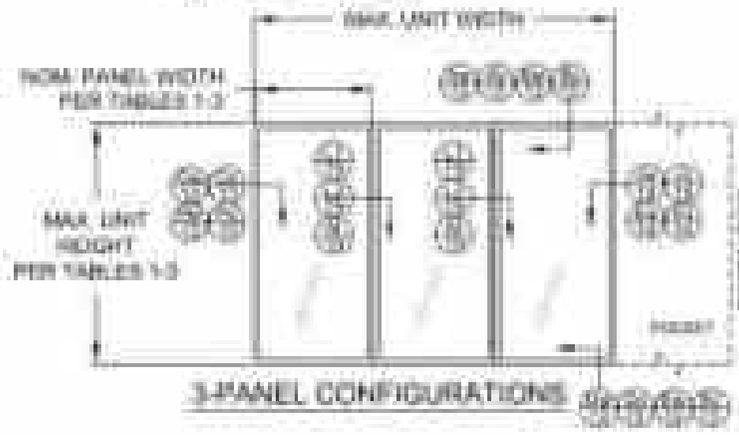
CONFIGURATIONS NOTES:
1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Jw", "Ji", "Sw" OR "Si" INSTALLATION. EXAMPLE: 4-PANEL XOOX IN POCKET (s) CONFIGURATION CAN BE pXOOXp, pXOOXi OR XOOXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.

2) 90° & 135°-CORNER CONFIGURATIONS CAN BE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

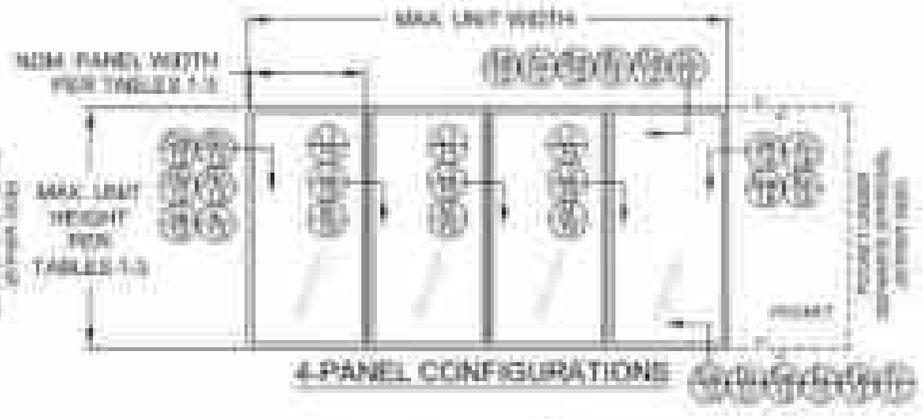
3) FOR NOM. PANEL WIDTH SEE TABLES 1-3.

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

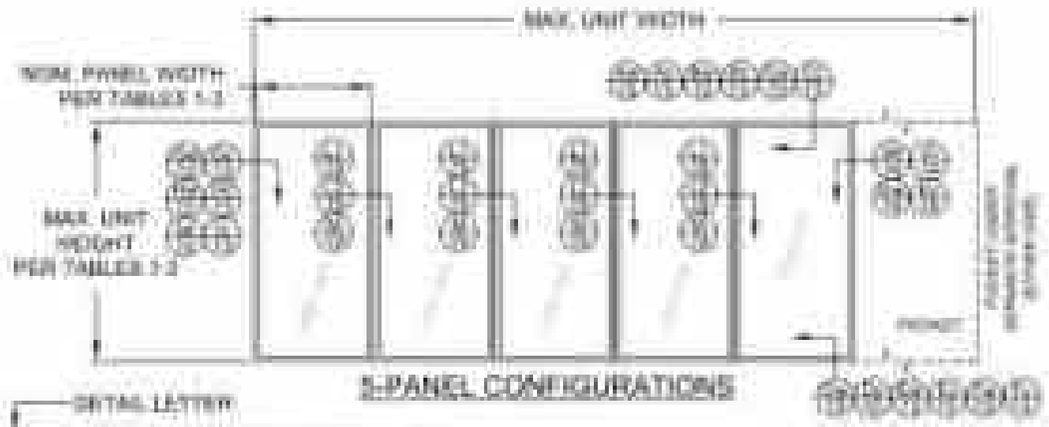
FILLO WIDTH = NOM. PANEL WIDTH - 7"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1-1/8"
FILLO HEIGHT = WINDOW UNIT HEIGHT - 13-1/8"
TILLO HEIGHT = PANEL HEIGHT - 5-1/4"



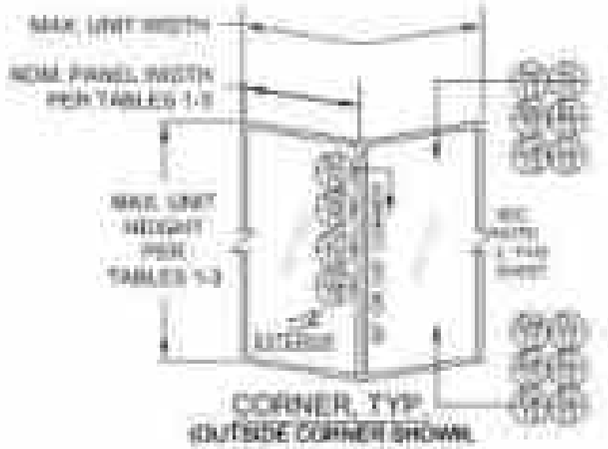
3-PANEL CONFIGURATIONS



4-PANEL CONFIGURATIONS



5-PANEL CONFIGURATIONS

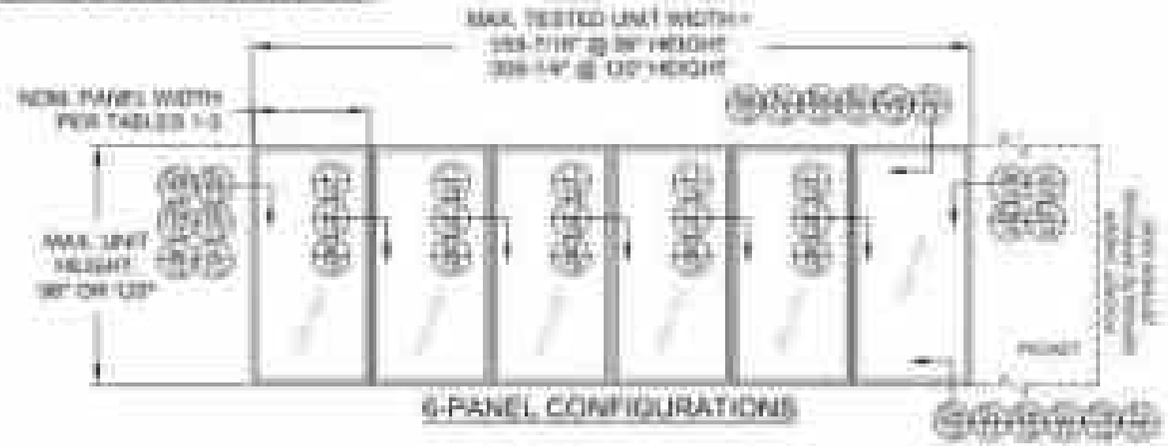


CORNER, TYP.
(OUTSIDE CORNER SHOWN, INSIDE CORNER SIMILAR)

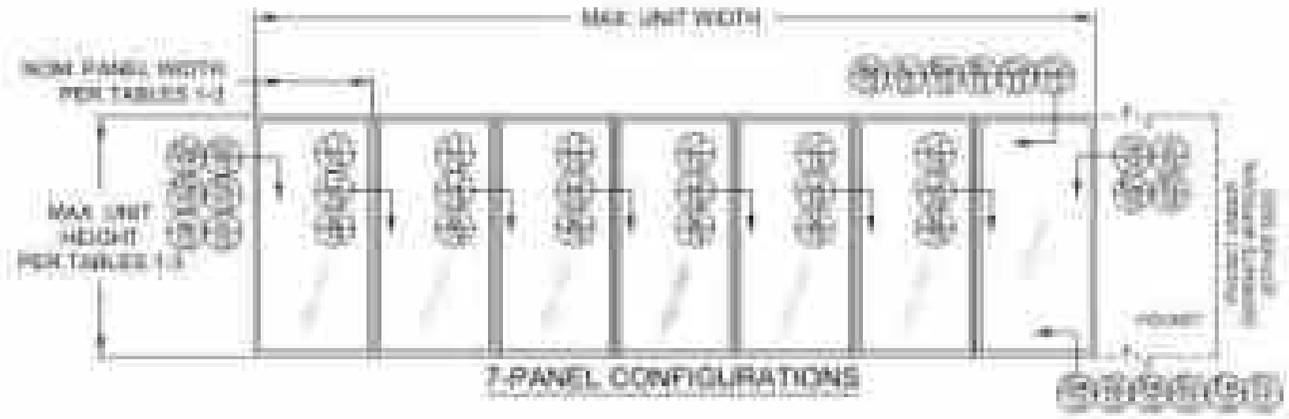
PGT
ALUMINUM-IMPACT WINDOW
EXAMPLE CONFIGURATIONS
DRAWING NO.
SHEET NO.
REVISIONS
DATE
BY

ANTHONY LYNN MILLER
No. 39705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

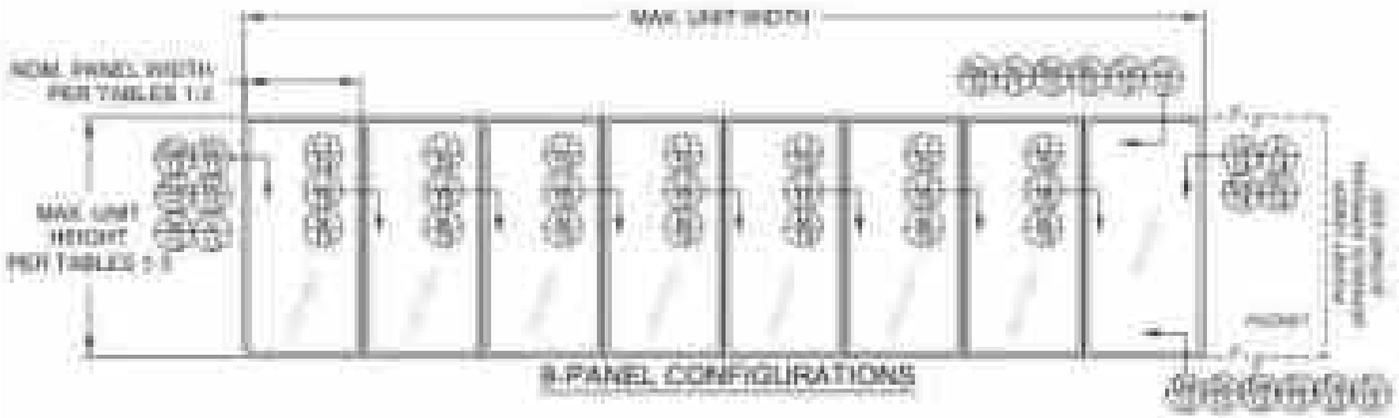
EXAMPLE CONFIGURATIONS



6-PANEL CONFIGURATIONS



7-PANEL CONFIGURATIONS



8-PANEL CONFIGURATIONS

CONFIGURATIONS NOTES:
1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "JW", "JC", "WW" OR "WC" INSTALLATION. EXAMPLE: 4-PANEL XOOX IN POCKET (p) CONFIGURATION CAN BE pXOOXp, pXOOX OR XOOXp. OOOX IN POCKET CONFIGURATION CAN BE OXXXp.

2) 90° & 135° CORNER CONFIGURATIONS CAN BE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

3) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.

"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"p" = POCKET

DETAIL LETTER
"W" = WOOD OR METAL INSTALLATION
"I" = CONCRETE INSTALLATION
SHEET NUMBER

DLO WIDTH = NOM. PANEL WIDTH - 7"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1-7/8"
DLO HEIGHT = WINDOW UNIT HEIGHT - 10-1/8"
DLO HEIGHT = PANEL HEIGHT - 8-1/4"

PGT
ALUMINUM IMPACT WINDOW SYSTEM
EXAMPLE CONFIGURATIONS
WINDOW
ENGINEERING
DRAWING

GLAZING DETAILS



GLASS TYPE 3



GLASS TYPE 3A



GLASS TYPE 4



GLASS TYPE 4A

Glass Type	Description (Listed from Exterior to Interior)
3	[illegible]
3A	[illegible]
4	[illegible]
4A	[illegible]
5	[illegible]
5A	[illegible]
6	[illegible]
6A	[illegible]
7	[illegible]
7A	[illegible]
8	[illegible]
8A	[illegible]

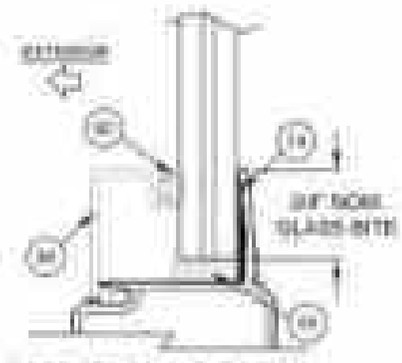
[illegible]
[illegible]
TG = TEMPERED
PVB = TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.
SG = SENTRYGLAS PVB INTERLAYER BY KURARAY AMERICA, INC.



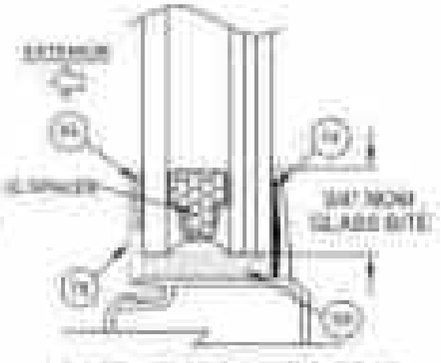
GLASS TYPE 5
7/16" NOM. GLASS STACK



GLASS TYPE 5A
7/16" NOM. GLASS STACK



LAMI. GLAZING DETAIL



LAMI. IG GLAZING DETAIL

CONTINUED ON NEXT SHEET

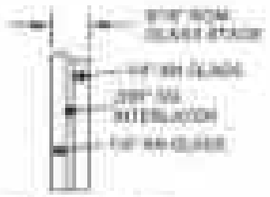
PGT
ALUMINUM SLIDING GLASS WINDOWS
GLAZING DETAILS
SCALE: 1/8" = 1'-0"
DATE: 10/27/16
SHEET NO.
GD-2

REGISTERED PROFESSIONAL ENGINEER

GLAZING DETAILS, CONT.



GLASS TYPE E



GLASS TYPE EA



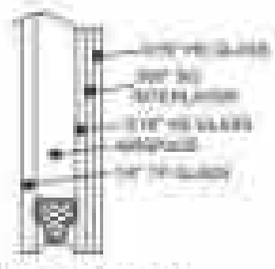
GLASS TYPE 6
(NEW GLASS STACK)



GLASS TYPE 6A
(NEW GLASS STACK)



GLASS TYPE 6
(NEW GLASS STACK)



GLASS TYPE 6A
(NEW GLASS STACK)

PGT

ALUMINUM SLIDING GLASS WINDOWS

GLAZING DETAILS

DATE: 10/15/20

SHEET NUMBER: GD

ROBERT LYNN BULLER
FLORIDA
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

TABLE 1

Design Pressure (DP) and Anchor Quantities Required,
(for all approved configurations on Sheets 2 & 3)
For corner storefront anchorage on 90° or 135° corner units, see sheet 11

Maximum DP for all sizes: +68 / -68
(May be limited by Table 1A)

Nominal Panel Width (in)	Series to Inter-Glass Types: GMT, FW, G, SH, S & SM; PMT, SQ, T, TA, S & SM; and the Sills/Accessories shown below.		Window Unit Height (in)																					
			42"				59"				62"				75"				80"				96"			
			51-1/8" DLO				51-7/8" DLO				48-7/8" DLO				61-7/8" DLO				63-7/8" DLO				80-7/8" DLO			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24	17" DLO	Head/Sill	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		P-Value	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
30	23" DLO	Head/Sill	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		P-Value	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
42	29" DLO	Head/Sill	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1	CH+1
		Jamb	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		P-Value	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
48	41" DLO	Head/Sill	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2	CH+2
		Jamb	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	5	5	5
		P-Value	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8

FOR EXAMPLE ON USING TABLE SEE SHEET 8

Fig 1

1 FT MIN.

WHERE USED IN A PASS-THROUGH WINDOW APPLICATION A MIN. 3-FT OVERHANG IS REQUIRED PER THE CURRENT BUILDING CODE.

FOR STANDARD WINDOW APPLICATION, A SILL RISER WILL BE REQUIRED TO MEET THE WATER INFILTRATION REQUIREMENT.

NOTES:
1) POSITIVE PRESSURES IN TABLE 1 ARE BASED ON THE USE OF THE 3-1/4" SILL.

2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 80.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 80.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 1A.

3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 1 MAY BE USED WHEN THE WINDOW IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM). THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.

4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.

5) WINDOW SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.

6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY. DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

TABLE 1A

Sill Height in Max. (+) DP (Water Infiltration Rating)	
Sill Head Height (Tbl. or Illus. see Sheet 11)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 2
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 80.0
High - 4"	+ 80.0

SEE NOTES 1-3

THE FOLLOWING STILE & MEETING/CAL TYPES SHALL BE USED FOR TABLE 1. SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 16 & 19 FOR ASSEMBLY DETAILS.

Interlock	A Astrag	Interlock @ Jamb	Straight Astragal Assembly	Interlock @ Straight Astragal	90° Astragal Assembly	Interlock @ 90° Astragal	135° Astragal Assembly	Interlock @ 135° Astragal
Standard Stile	Standard Stile	Standard Stile	Standard Stile	Standard Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
			Standard Astragal 		Outside Corner  Inside Corner	Outside Corner  Inside Corner	Inside Corner  Outside Corner	
Part #802 (x2)	Part #84	Part #86	Part #80 (Stile) Part #67 (Astrag x2)	Part #84	Part #61 (Stile) Part #218 (Corner Reinforcement)	Part #228 (Stile) Part #235 (H.)	Part #62 (Stile) Parts #31 & #31 (Corn. & Fast Mount)	Part #86

DLO WIDTH =
NOM. PANEL WIDTH - 7"

PANEL HEIGHT =
WINDOW UNIT HEIGHT - 1-7/8"

DLO HEIGHT =
WINDOW UNIT HEIGHT - 10-5/8"

DLO HEIGHT =
PANEL HEIGHT + 8-1/4"

PGT
ALUMINUM IMPACT GLASS WINDOW
DP & ANCHORAGE
SCOTTSVILLE

TABLE 3

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)

For corner mitered anchorage on 90° or 135° corner units, see sheet 11.

Maximum DP for all sizes: +60 / -60
May be limited by Table 2A)

Applies to Interlayer/Glass Types: 0.090" SG: 4, 4A, 5, 5A; 7, 7A, 8, 8A and the Interlayer/Glass Types shown below.			Window Unit Height (ft)																							
			42				48				60				72				80				96			
			21 7/8" DLO				27 7/8" DLO				45 7/8" DLO				57 7/8" DLO				65 7/8" DLO				81 7/8" DLO			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Nominal Frame Width (in)	24	17" DLO	Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
			Jamb	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	8	8	8	8
			P-Mask	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
	36	29" DLO	Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
			Jamb	4	4	4	4	5	5	5	5	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8
			P-Mask	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
	42	35" DLO	Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
			Jamb	5	4	5	5	6	6	6	6	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
			P-Mask	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
	48	41" DLO	Head/Sill	C4+2	C4+2	C4+1	C4+1	C4+2	C4+2	C4+1	C4+1	C4+2	C4+2	C4+1	C4+1	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2
			Jamb	4	4	4	5	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8
			P-Mask	4+5	4+5	4+5	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
	54	47" DLO	Head/Sill	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2
			Jamb	4	4	4	4	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8
			P-Mask	4+5	5+6	5+6	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8
	60	53" DLO	Head/Sill	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2	C4+1	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2
			Jamb	4	4	4	4	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	8	8	8
			P-Mask	4+5	5+6	5+6	4+5	4+5	4+5	4+5	4+5	5+6	5+6	5+6	5+6	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8

*FOR EXAMPLE ON USING TABLE, SEE SHEET 9.

NOTES:

1) POSITIVE PRESSURES IN TABLE 3 ARE BASED ON THE USE OF THE 3-1/4" SILL.

2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.97 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX (NEGATIVE PRES. UNCHANGED). SEE TABLE 2A.

3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 3 MAY BE USED WHEN THE WINDOW IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FBC (SEE ADJACENT DIAGRAM). THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.

4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.

5) WINDOW SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.

6) JAMB AND HORS ARE SPECIFIED AS THE TOTAL QUANTITY. DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

THE FOLLOWING STILE & INTERFACIAL TYPES SHALL BE USED FOR TABLE 3. SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 15 & 16 FOR ASSEMBLY DETAILS.

Inter-lock	H-lock	Lock-Mate @ Lock	Straight Astragal Assembly	Interlock @ Straight Astragal	90° Astragal Assembly	Lock-Mate @ 90° Astragal	135° Astragal Assembly	Lock-Mate @ 135° Astragal
Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
			Standard Astragal					
Part #63 (x2)	Part #63	Part #66	Part #64 (Mid) Part #67 (Astragal)	Part #63	Part #61 (Stile) Part #118 (Corner Reinforcer)	Part #61A (Stile) Part #62B (Lk.)	Part #61 (Stile) Parts #63 & #62 (Corn. & Fail Mullion)	Part #65

DLO WIDTH = NOM. PANEL WIDTH - 7"

PANEL HEIGHT = WINDOW UNIT HEIGHT - 4-7/8"

DLO HEIGHT = WINDOW UNIT HEIGHT - 10-1/8"

DLO HEIGHT = PANEL HEIGHT - 8-1/4"

TABLE 2A

Sill Height to Max. (+) DP
(Water Infiltration Rating)

Sill Riser Height (Flat or Bow, see Sheet 11)	(+) Design Pressure, psf
Fixed - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.97
Medium - 3-1/4"	+ 60.0
High - 4"	+ 60.0

SEE NOTES 1-3

FIG 1:



WHEN USED IN A PASS-THROUGH WINDOW APPLICATION A MIN. 3-FT OVERHANG IS REQUIRED PER THE CURRENT BUILDING CODE.

FOR STANDARD WINDOW APPLICATION, A SILL RISER WILL BE REQUIRED TO MEET THE WATER INFILTRATION REQUIREMENT.

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ALUMINUM IMPACT SLIDING GLASS WINDOW
DP & ANCHORAGE
ID10 IRONWORKS
SCALE: NTS
SHEET NO. 4 OF 17

TABLE 3

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)

For corner astragal anchorage on 30° or 135° corner units, see sheet 11

Maximum DP for all sizes: +90 / -90
(May be limited by Table 3A & Note 8 below)

Nominal Panel Width (in)	Nominal Panel Height (in)	Reglets to Infill Glass Types 1 (1/8" SS), 4, 4A, 5, 5A, 7, 7A, 8 & 8A and the Stile/Astragal types shown below.	Window Unit Height (in)																					
			42"				66"				90"				72"				90"				96"			
			31-7/8" O.L.O.				37-7/8" O.L.O.				49-7/8" O.L.O.				61-7/8" O.L.O.				69-7/8" O.L.O.				85-7/8" O.L.O.			
			Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24	17" O.L.O.	Head/Sill	C4+1	C6+1	C4+1	C6+1	C6+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C6+1	C4+1	C6+1	C4+1	C6+1	C6+1	C6+1	C4+1	C6+1	C4+1	C6+1
		Jamb	4	4	4	4	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8
		P-Hook	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	5+1	5+1	5+1	5+1	5+1	5+1	5+1	5+1	6+1	6+1	6+1	6+1	7+1	7+1	7+1	7+1
39	29" O.L.O.	Head/Sill	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1
		Jamb	4	4	4	4	6	6	6	6	6	6	6	6	8	8	8	8	10	8	8	8	12	10	8	8
		P-Hook	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	5+1	5+1	5+1	5+1	6+1	6+1	6+1	6+1	6+1	6+1	6+1	6+1	8+1	8+1	8+1	8+1
47	35" O.L.O.	Head/Sill	C4+2	C6+2	C4+2	C6+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C6+2	C4+2	C4+2	C4+2	C6+2	C4+2	C6+2	C4+2
		Jamb	4	4	4	4	6	6	6	6	6	6	6	6	8	8	8	8	10	8	8	8	12	10	8	8
		P-Hook	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	5+1	5+1	5+1	5+1	6+1	6+1	6+1	6+1	7+1	7+1	7+1	7+1	8+1	8+1	8+1	8+1
49	37" O.L.O.	Head/Sill	C4+2	C6+2	C6+2	C6+2	C4+2	C6+2	C4+2	C4+2	C6+2	C4+2	C6+2	C6+2	C4+2	C6+2	C4+2	C4+2	See Note 3 below							
		Jamb	4	4	4	4	6	6	6	6	6	6	6	6	10	8	8	8	10	8	8	8	14	12	8	8
		P-Hook	4+1	4+1	4+1	4+1	4+1	4+1	4+1	4+1	5+1	5+1	5+1	5+1	6+1	6+1	6+1	6+1	7+1	7+1	7+1	7+1	9+1	9+1	9+1	9+1

NOTE A: +/-90.0 PSF FOR GLASS TYPES 3B, 3C, 4, 4A, 5B, 5C, 5, 5A, 7A, 8 & 8A; +/-97.1 FOR GLASS TYPE 7

EXAMPLE ON SHEET 9

FIG 1:



WHEN USED IN A PASS-THROUGH WINDOW APPLICATION A MIN. 9-FT OVERHANG IS REQUIRED PER THE CURRENT BUILDING CODE.

FOR STANDARD WINDOW APPLICATION, A SILL RISER WILL BE REQUIRED TO MEET THE WATER INFILTRATION REQUIREMENT.

NOTES:
1) POSITIVE PRESSURES IN TABLE 3 ARE BASED ON THE USE OF THE 4" SILL.
2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 90.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 3A.
3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 3 MAY BE USED WHEN THE WINDOW IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM). THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
5) WINDOW SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

TABLE 3A

Sill Height to Max. (+) DP (Positive Wind Load Rating)	
Sill Riser Height (Per Fig. shown on Sheet 11)	(+) Design Pressure (psf)
4"sill - 4 1/2"	see table 3
Low - 2 1/2"	+ 46.67
Standard - 3 1/4"	+ 60.0
High - 4"	+ 90.0

SEE NOTES 1-3

THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 3. SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

Interlock	P-Hook	Locksmith @ Jamb	Straight Astragal Assembly	Locksmith @ Straight Astragal	90° Astragal Assembly	Locksmith @ 90° Astragal	135° Astragal Assembly	Locksmith @ 135° Astragal
Heavy duty Sidlite	Heavy duty Stile	Heavy duty Stile	Heavy duty Stile Heavy duty Astragal	Heavy duty Stile	Heavy duty Stile	Heavy duty Stile	Heavy duty Stile	Heavy duty Stile
								
Part #63 (x2)	Part #63	Part #61	Part #61 (Stile) Part #68 (Astragal)	Part #61	Part #63 (Stile) Part #138 (Corner Receiver)	Part #1 (Stile) Part #2 (Stile)	Part #63 (Stile) Parts #31 & #32 (Corn. & Tail Mullion)	Part #63

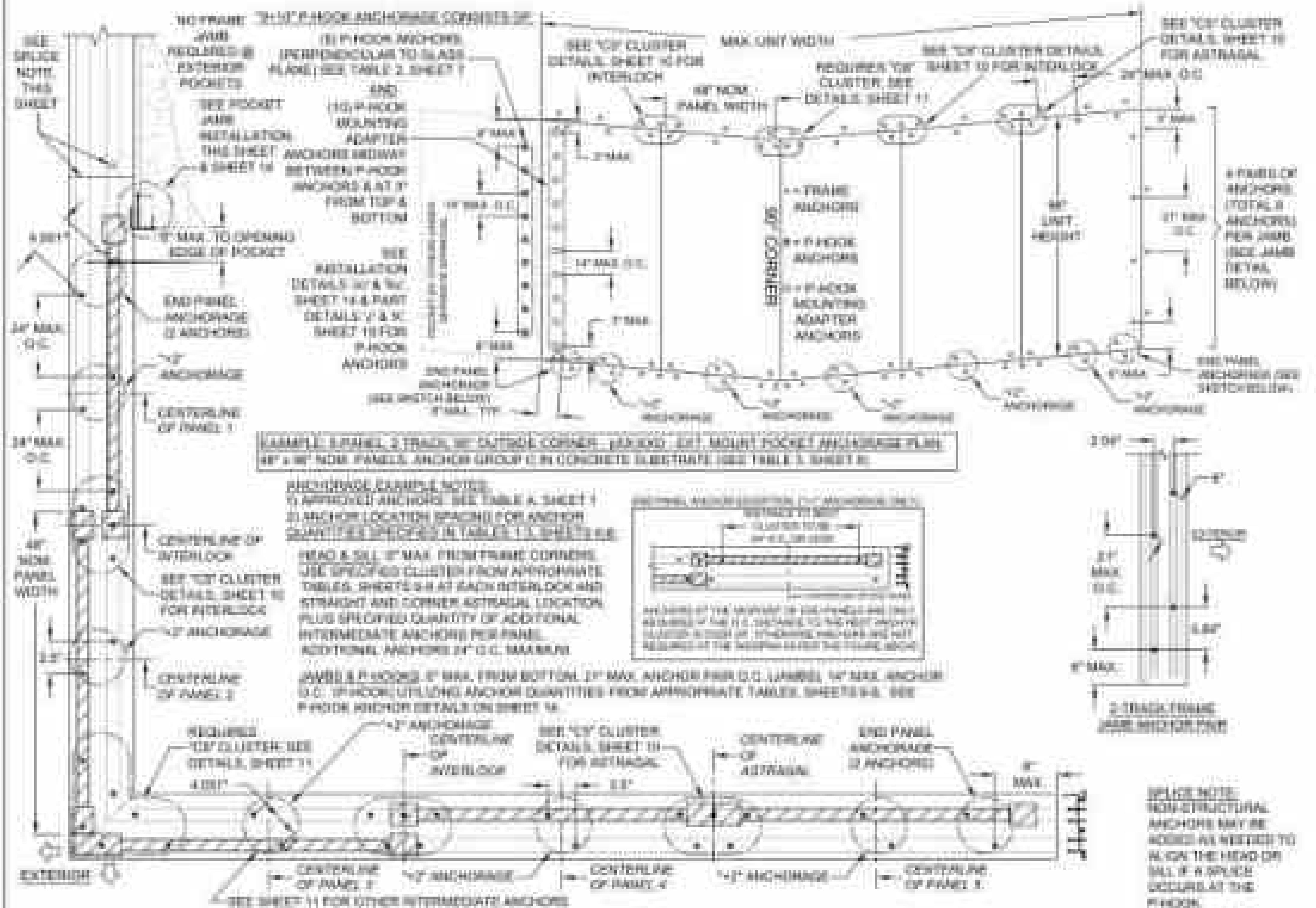
OLO WIDTH =
NOM. PANEL WIDTH + 3"

PANEL HEIGHT =
WINDOW UNIT HEIGHT - 1 7/16"

OLO HEIGHT =
WINDOW UNIT HEIGHT - 1/2 7/8"

OLO HEIGHT =
PANEL HEIGHT - 6 1/4"

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DP & ANCHORAGE
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EXAMPLE: 5 PANEL, 2 TRACK, 90° OUTSIDE CORNER, EXT. MOUNT POCKET ANCHORAGE PLAN
48" x 96" NOM. PANELS, ANCHOR GROUP C IN CONCRETE SUBSTRATE (SEE TABLE 3, SHEET 8)

ANCHORAGE EXAMPLE NOTES:

1) APPROVED ANCHORS: SEE TABLE A, SHEET 1

2) ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLES 1-3, SHEETS 6-8.

HEAD & SILL: 3" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM APPROPRIATE TABLES, SHEETS 6-8 AT EACH INTERLOCK AND STRAIGHT AND CORNER ASTRAGAL LOCATION PLUS SPECIFIED QUANTITY OF ADDITIONAL INTERMEDIATE ANCHORS PER PANEL. ADDITIONAL ANCHORS 24" O.C. MAXIMUM.

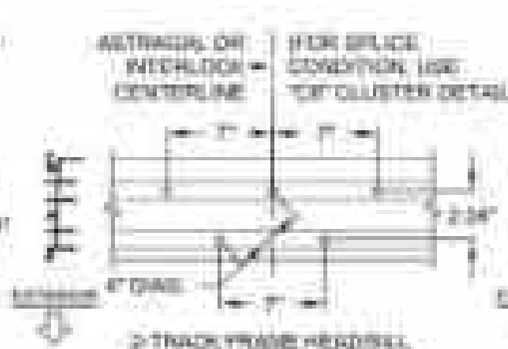
JAMBS & P-HOOKS: 6" MAX. FROM BOTTOM, 21" MAX. ANCHOR PAIR O.C. (JAMBS), 14" MAX. ANCHOR O.C. (P-HOOK); UTILIZING ANCHOR QUANTITIES FROM APPROPRIATE TABLES, SHEETS 6-8. SEE P-HOOK ANCHOR DETAILS ON SHEET 14.

SPLICE NOTE:
NON-STRUCTURAL ANCHORS MAY BE ADDED AS NEEDED TO ALIGN THE HEAD OR SILL IF A SPLICE OCCURS AT THE P-HOOK.

PGT



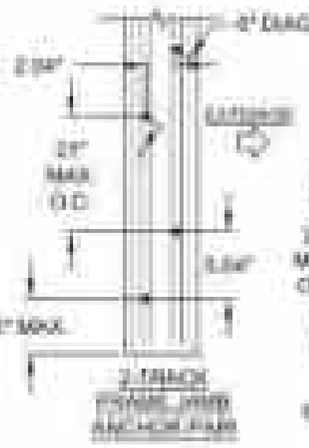
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED "C4")



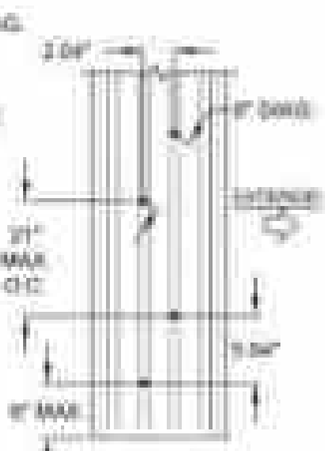
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 3 CLUSTER ANCHORS ARE REQUIRED "C6")



2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 2 CLUSTER ANCHORS ARE REQUIRED "C4")



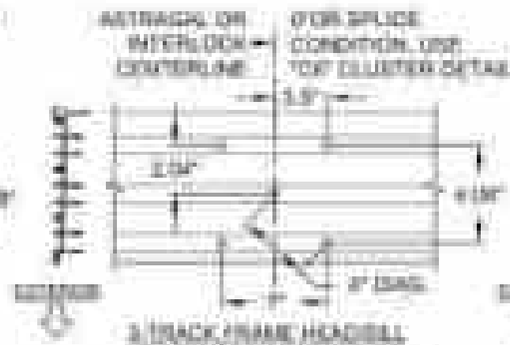
2-TRACK FRAME JAMB ANCHOR PAN



4-TRACK FRAME JAMB ANCHOR PAN



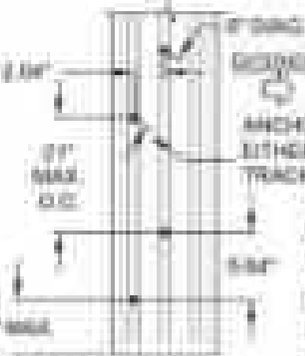
3-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED "C4")



3-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 3 CLUSTER ANCHORS ARE REQUIRED "C3")



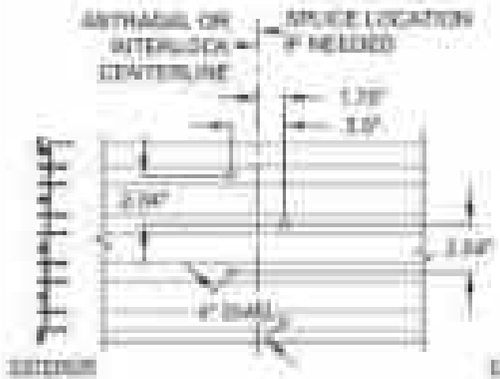
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 2 CLUSTER ANCHORS ARE REQUIRED "C2")



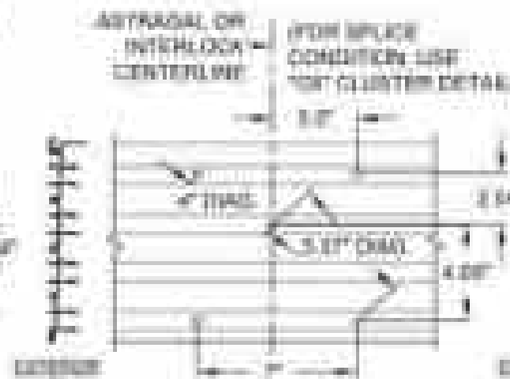
ANCHORS MAY BE INSTALLED EITHER IN THE EXT. OR INT. TRACK (INT. SHOWN)

2-TRACK FRAME JAMB ANCHOR PAN

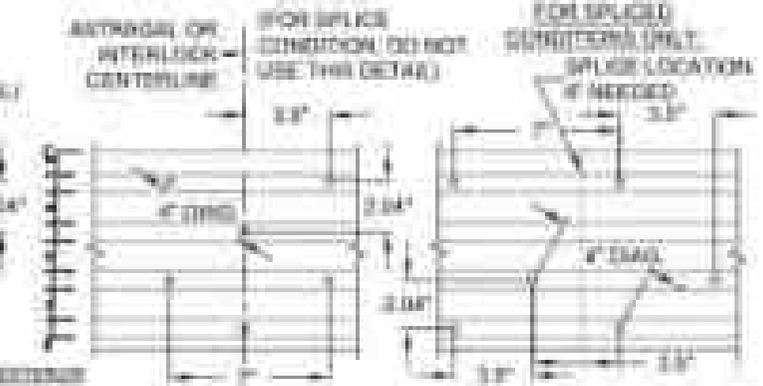
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. FOR HEAD OR SILL SPLICE LOCATION/ANCHORAGE AT P-HOOK SEE SHEET 9.



4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED "C4")



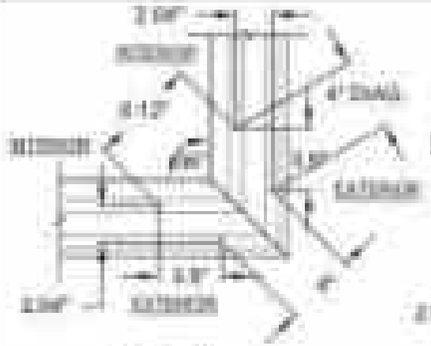
4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 3 CLUSTER ANCHORS ARE REQUIRED "C3")



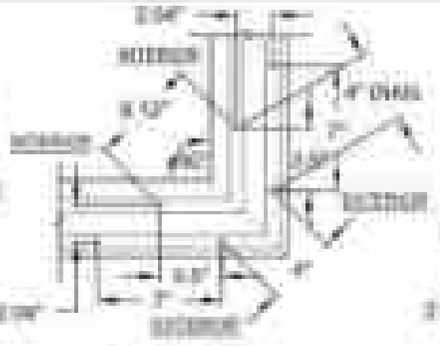
4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK
(USE WHERE 5 CLUSTER ANCHORS ARE REQUIRED, "C5") WITH & WITHOUT SPLICE CONDITION

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ALUMINUM SLIDING GLASS WINDOWS
ANCHORAGE - CLUSTERS
ISSUED
REVISIONS
DATE
BY

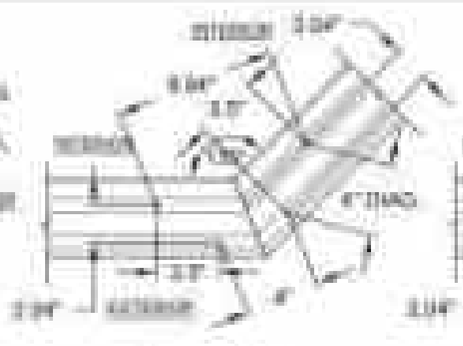
WRIGHT LYON SHELLEY
ENGINEERING
No. 39705
STATE OF FLORIDA
PROFESSIONAL ENGINEER



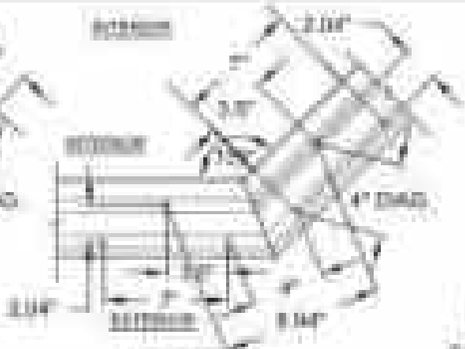
90° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER
ANCHORS ARE REQUIRED "C4")



90° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 5 OR 6 CLUSTER
ANCHORS ARE REQUIRED "C5")



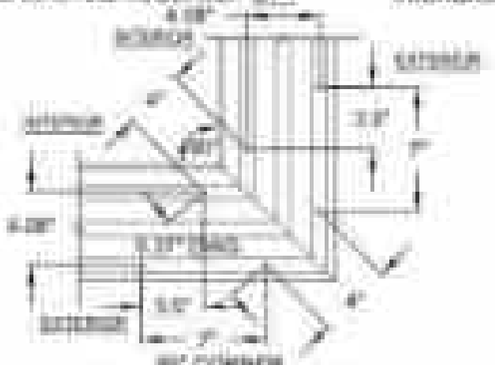
135° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER
ANCHORS ARE REQUIRED "C4")



135° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 5 OR 6 CLUSTER
ANCHORS ARE REQUIRED "C5")







90° CORNER
3-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED
AT ALL 3-TRACK CORNERS)



135° CORNER
3-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED
AT ALL 3-TRACK CORNERS)



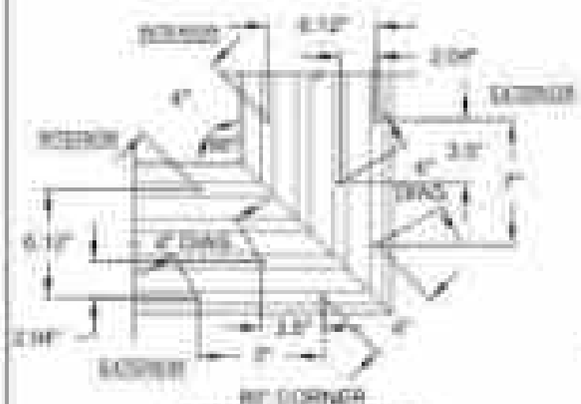




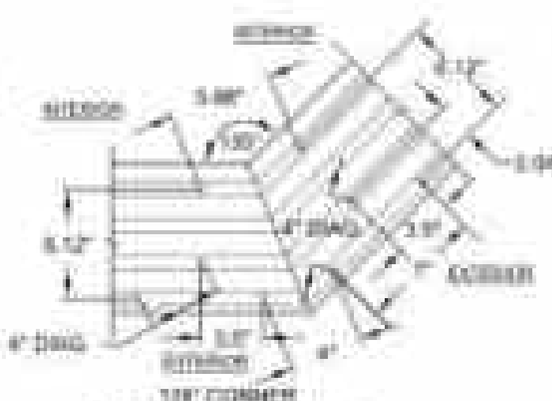
4-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT
(3-TRACK SIMILAR)



2-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT



90° CORNER
4-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED
AT ALL 4-TRACK CORNERS)

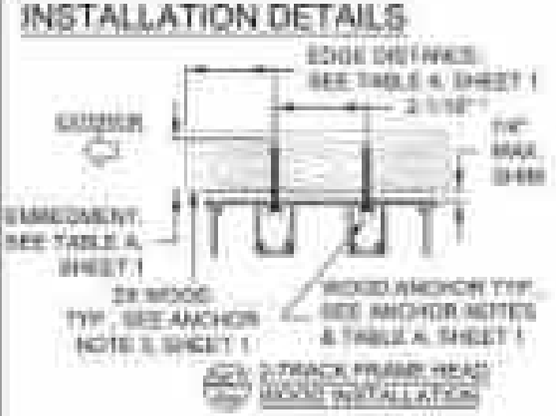


135° CORNER
4-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED
AT ALL 4-TRACK CORNERS)

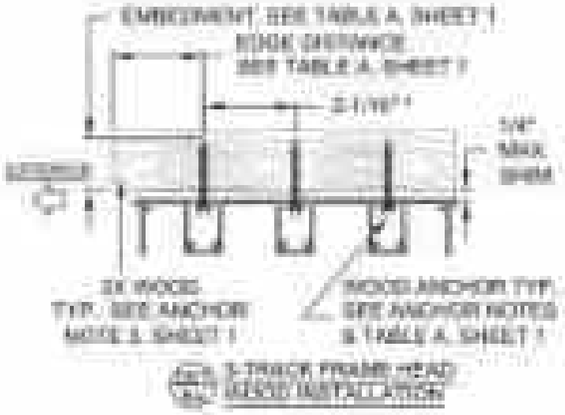
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2. DETAILS DEPICT ANCHOR QUANTITY AND SPACING AND WOULD BE IDENTICAL FOR EXTERIOR OR INTERIOR CORNER CONFIGURATIONS.

PGT
ALUMINUM BUILDING GLASS WINDOW
4 MONTAGE CLUSTERS
ID1S ROXWIN

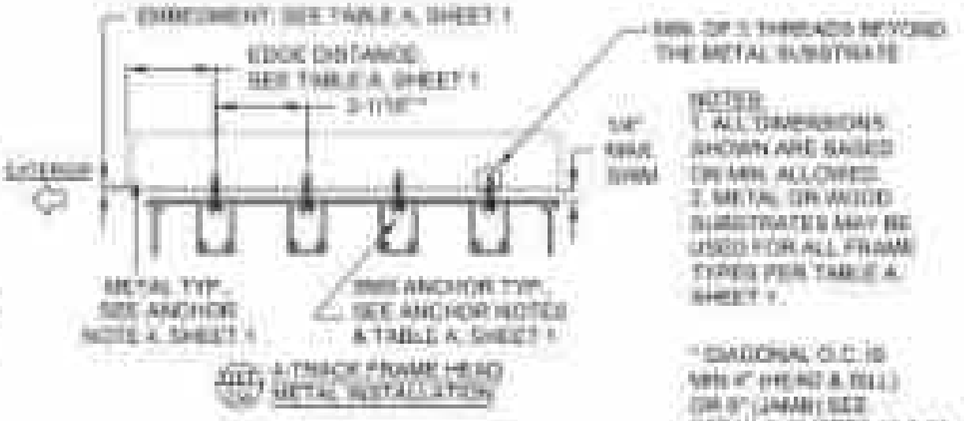
INSTALLATION DETAILS



2-TRACK FRAME HEAD WOOD INSTALLATION



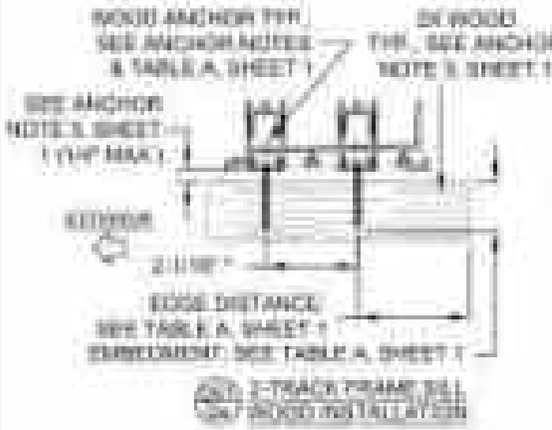
3-TRACK FRAME HEAD WOOD INSTALLATION



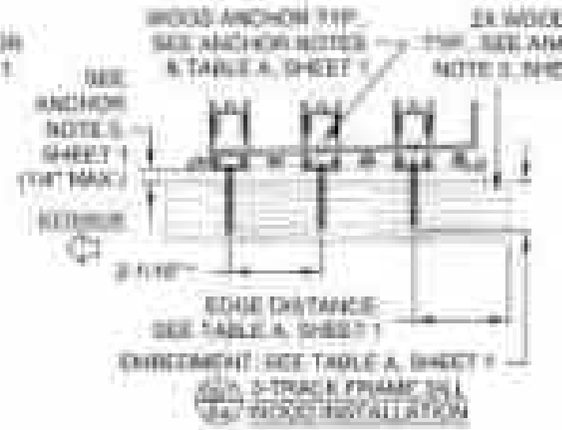
4-TRACK FRAME HEAD METAL INSTALLATION

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. METAL OR WOOD SUBSTRATES MAY BE USED FOR ALL FRAME TYPES PER TABLE A, SHEET 1.

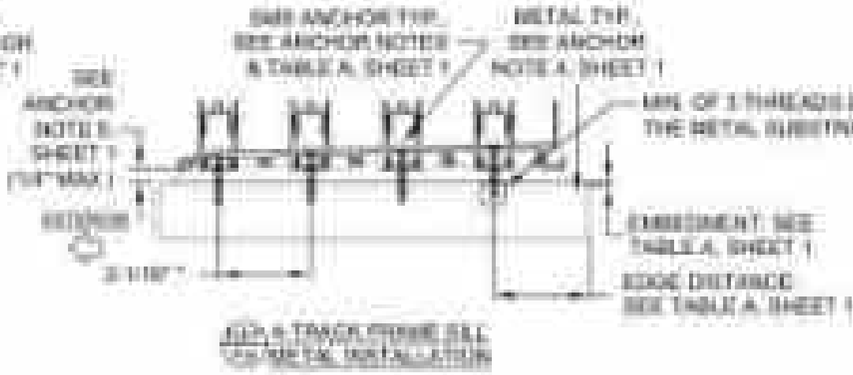
* DIAGONAL O.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS, SHEETS 70 & 71.



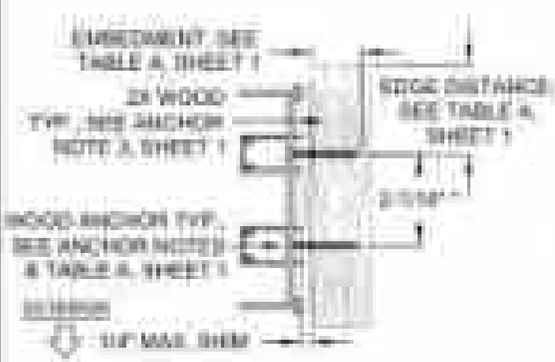
2-TRACK FRAME SILL WOOD INSTALLATION



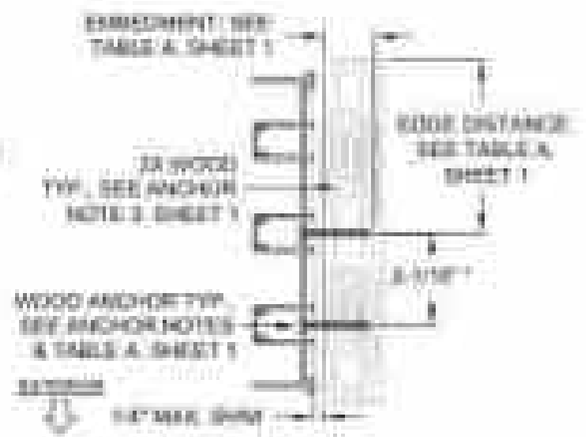
3-TRACK FRAME SILL WOOD INSTALLATION



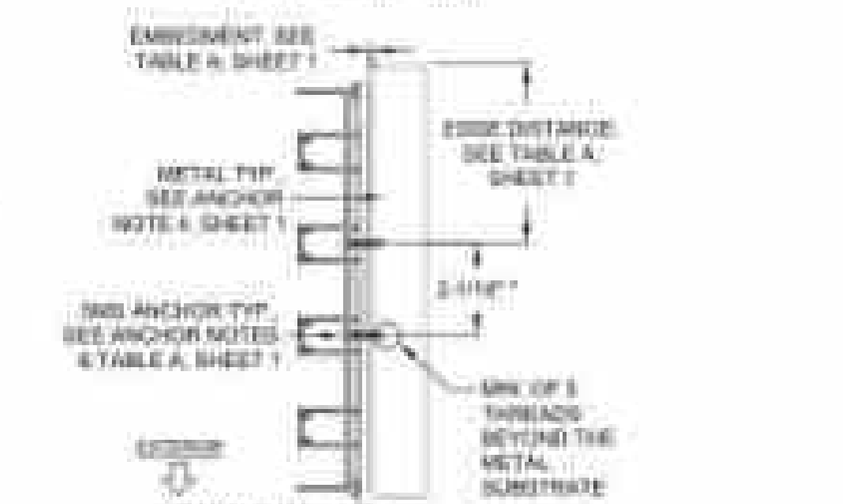
4-TRACK FRAME SILL METAL INSTALLATION



2-TRACK FRAME JAMB WOOD INSTALLATION



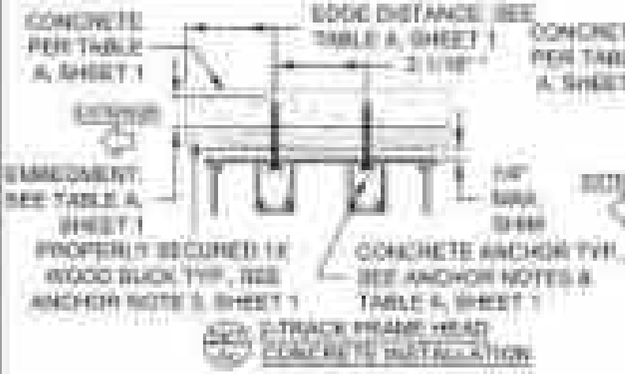
3-TRACK FRAME JAMB WOOD INSTALLATION



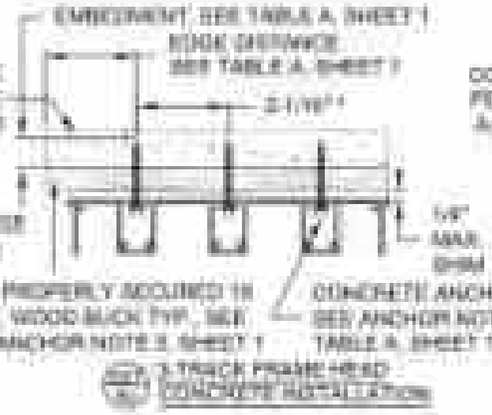
4-TRACK FRAME JAMB METAL INSTALLATION

PGT
ALUMINUM IMPACT SLIDING WINDOW
4W/4W/4W DETAILS
IDS ROSWELL

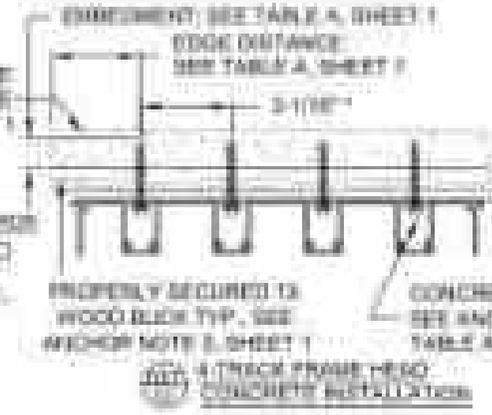
INSTALLATION DETAILS



3-TRACK FRAME HEAD CONCRETE INSTALLATION

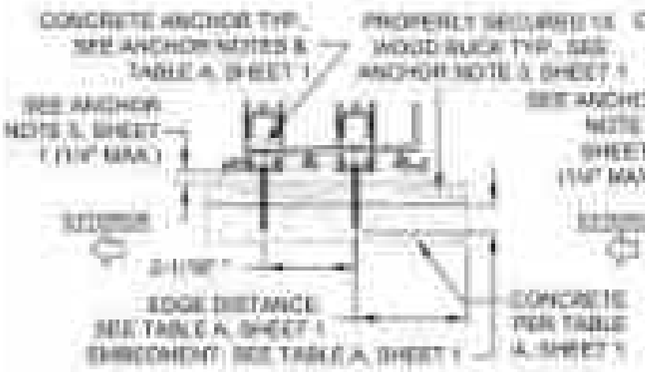


3-TRACK FRAME HEAD CONCRETE INSTALLATION

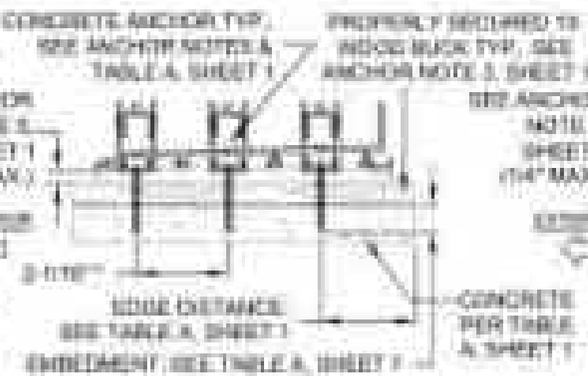


4-TRACK FRAME HEAD CONCRETE INSTALLATION

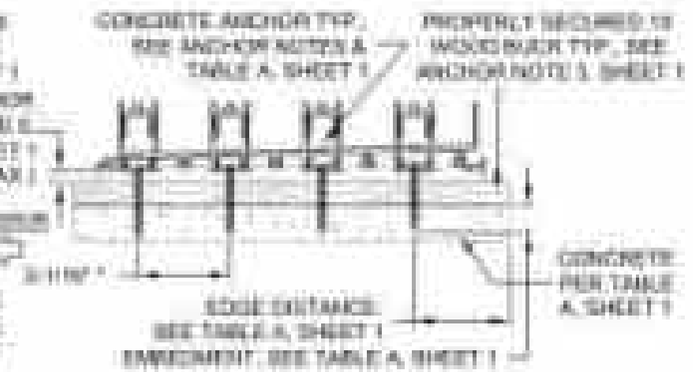
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
* DIAGONAL O.C. @ MIN. 6" (HEAD & SILL) OR 8" (JAMB) SEE DETAILS, SHEETS 10 & 11.



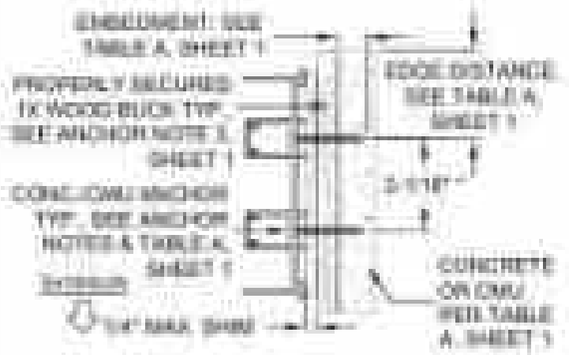
3-TRACK FRAME SILL CONCRETE INSTALLATION



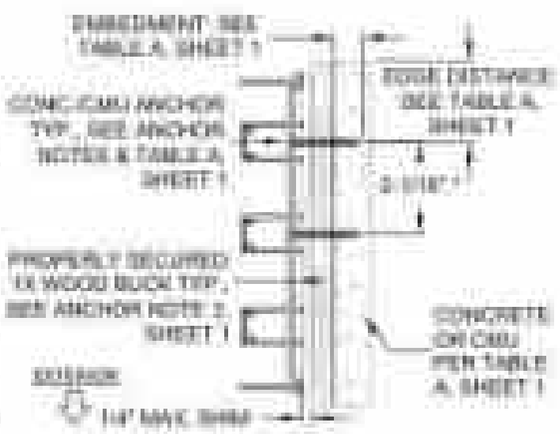
3-TRACK FRAME SILL CONCRETE INSTALLATION



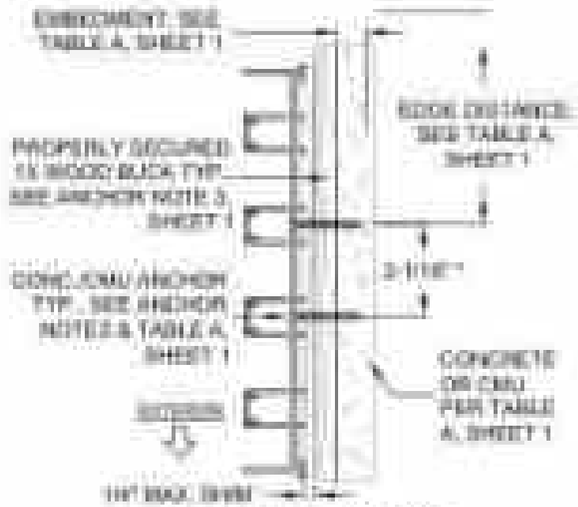
4-TRACK FRAME SILL CONCRETE INSTALLATION



3-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



3-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION

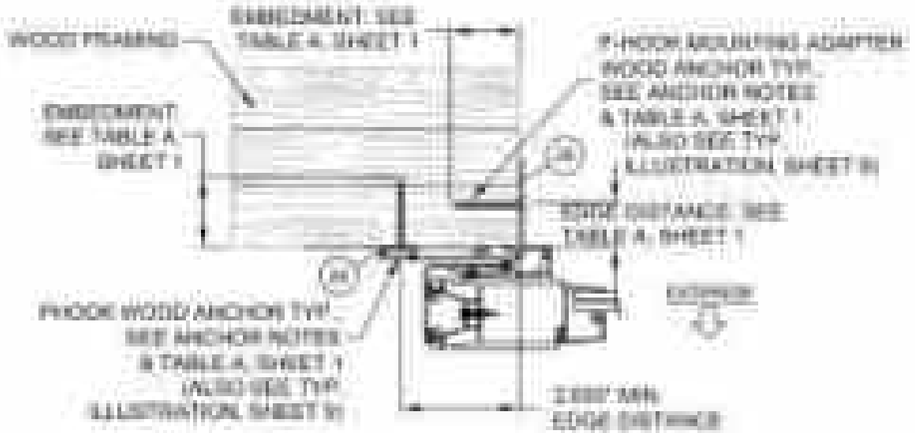


4-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION

PGT
ALUMINUM SLIDING WINDOW
ANCHORAGE DETAILS
SCALE: 1-1/2" = 1'-0"
SHEET NO. 12 OF 17

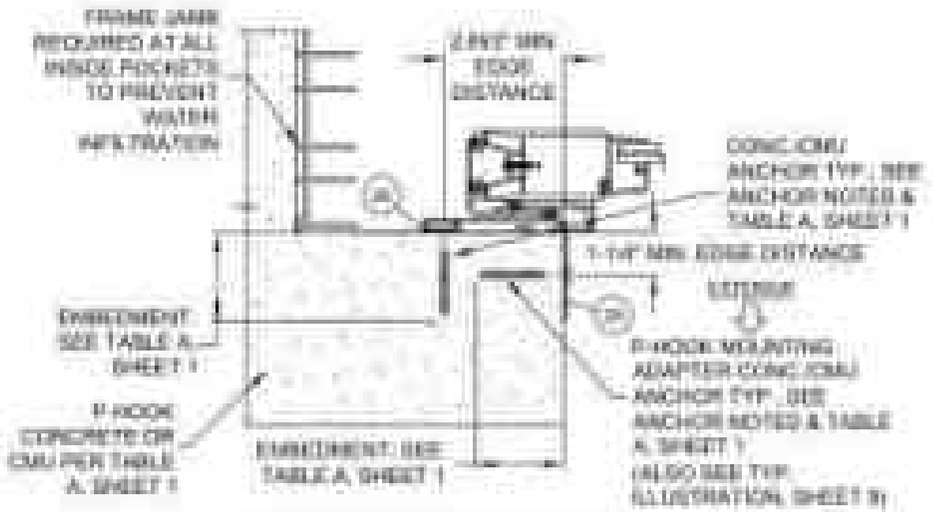
ROBERT LYAN SILLS
No. 39705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

INSTALLATION DETAILS



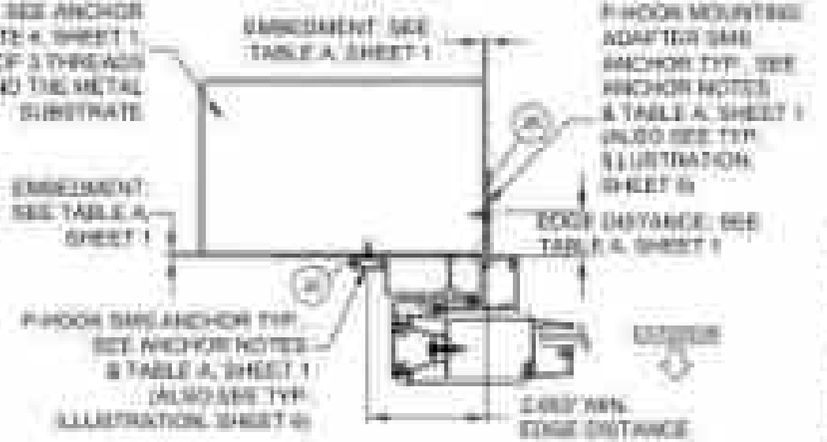
P-HOOK FOR USE WITH FLAT SILL RISERS
PARTS #16, #20, #22 OR #24
WOOD INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN INTERIOR CONDITION



P-HOOK FOR USE WITH ANY SILL RISER
PARTS #18, #20, #22 OR #24
CONCRETE/CMU INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

INTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN EXTERIOR CONDITION



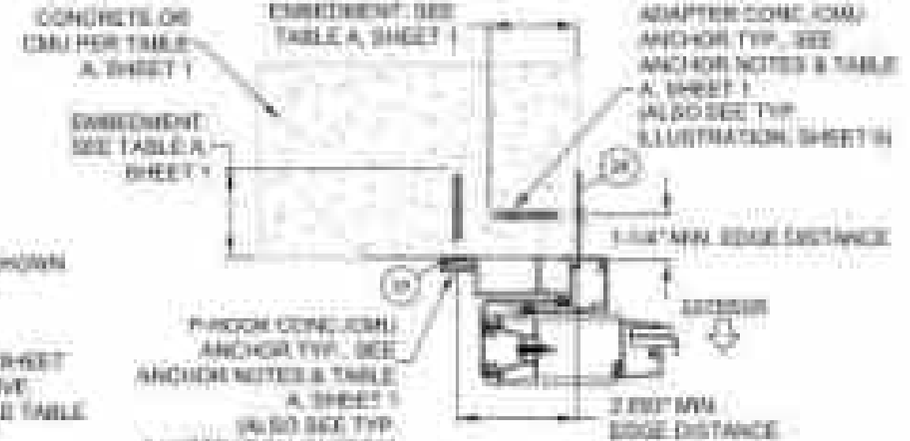
P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #18, #21, #23 OR #25
METAL INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT ONLY

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.

2. FIGURES ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE TABLE A, SHEET 1 FOR ALL APPROVED SUBSTRATES.

3. SEE TABLE 1-3, SHEETS 6-8 FOR REQUIRED P-HOOK AND P-HOOK MOUNTING ADAPTER ANCHOR QUANTITIES. ALSO SEE EXAMPLE ON SHEET 6.



P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #18, #21, #23 OR #25
CONCRETE INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

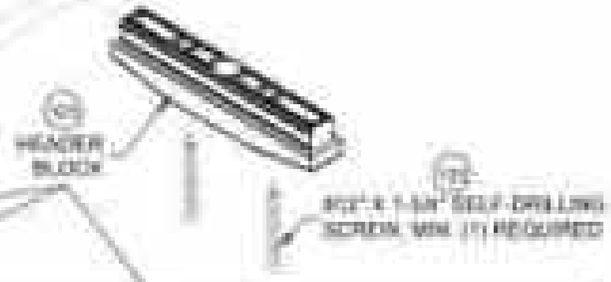
EXTERIOR MOUNT ONLY

PGT
ALUMINUM SLIDING GLASS WINDOWS
ANCHORAGE DETAILS
SCOTTSVILLE, KY

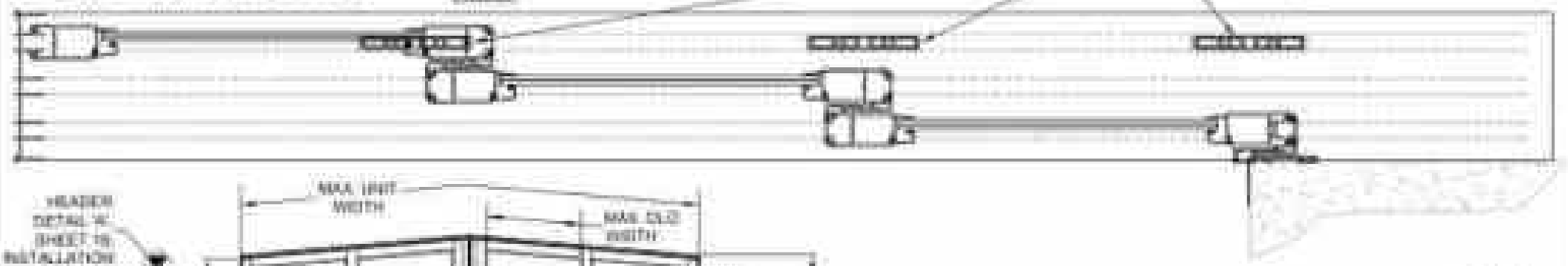
WILLIAM TYLER MILLER
No. 28556
STATE OF KENTUCKY
PROFESSIONAL ENGINEER

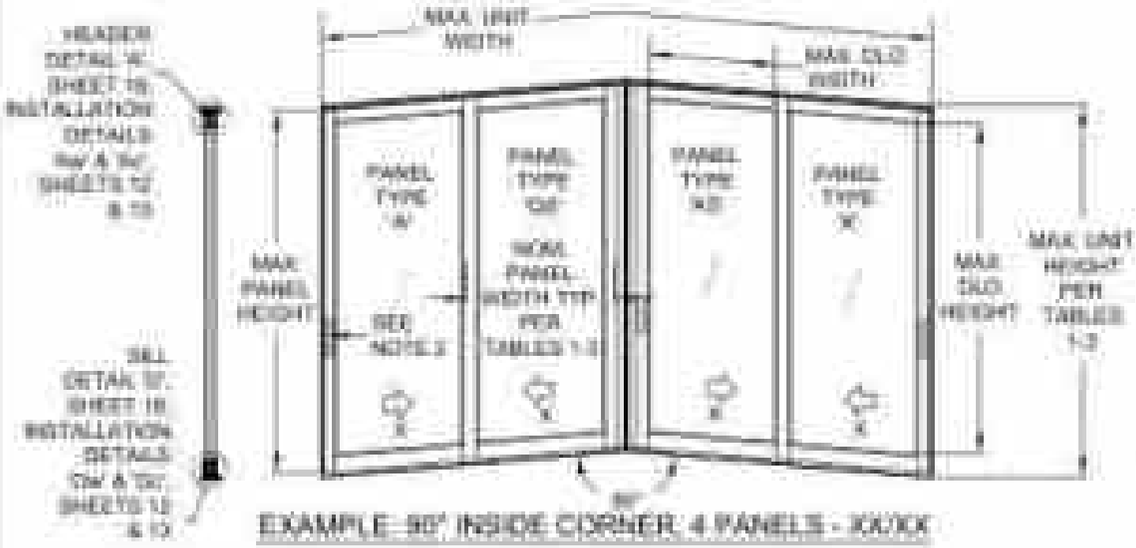
HEADER BLOCK TO HEADER ATTACHMENT
TO PREVENT ANY EXTERIOR OPERABLE PANEL FROM DISLODGING TO THE EXTERIOR, INSTALL ONE HEADER BLOCK AT EACH INTERLOCK, ASTRAGAL AND P-HOOK INTO THE EXTERIOR TRACK OF THE HEADER. TRIM THE SCREW COVER AS NEEDED.



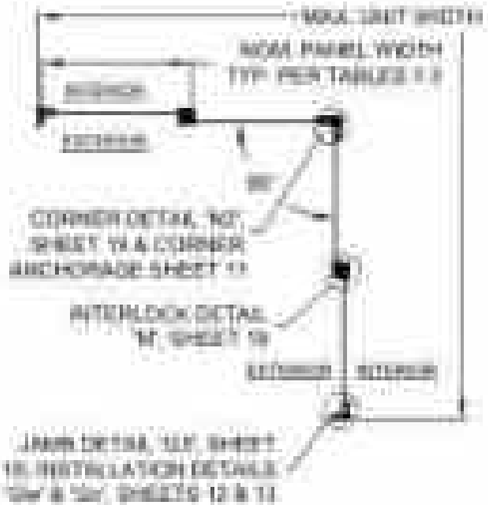


EXAMPLE: HEADER BLOCK PLACEMENT IN 3-PANEL CONFIGURATION, OTHERS SIMILAR



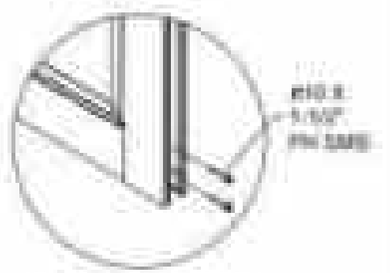


EXAMPLE: 90° INSIDE CORNER: 4 PANELS - XX/XX





FRAME CORNER DETAIL



PANEL CORNER DETAIL

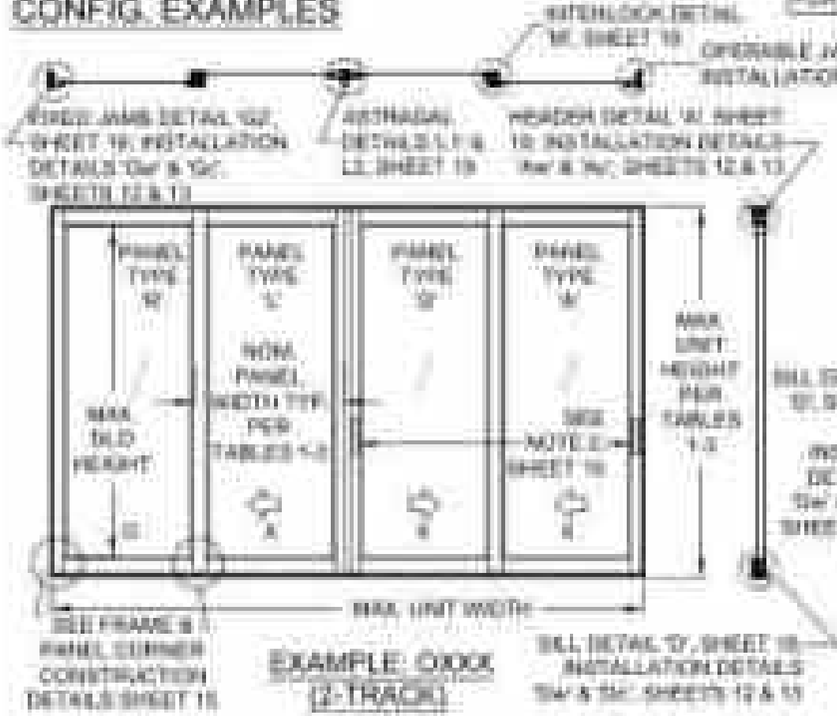
NOTES:
1) SEE SHEET 17 FOR INDIVIDUAL PANEL CONFIGURATIONS AS APPLICABLE. SEE DP ANCHOR TABLES, SHEETS 6 & 8 FOR MAX. PANEL HEIGHT AND WIDTH. SEE SHEETS 18 & 19 FOR SECTION DETAILS AND SHEETS 12-14 FOR INSTALLATION DETAILS.
2) (1) LOCK ITEMS 'P5 & 'P7'-1(1) AT EACH LOCKSTILE, LOCKING INTO ADJACENT PANEL AT FRAME JAMB OR MEETRAIL.
3) PLEASE SEE APPLICABLE MEETRAIL & INTERLOCK COMBINATIONS PER DP ANCHOR TABLES.

DLO WIDTH = NOM. PANEL WIDTH - 2"
DLO HEIGHT = WINDOW UNIT HEIGHT - [illegible]"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1 5/8"

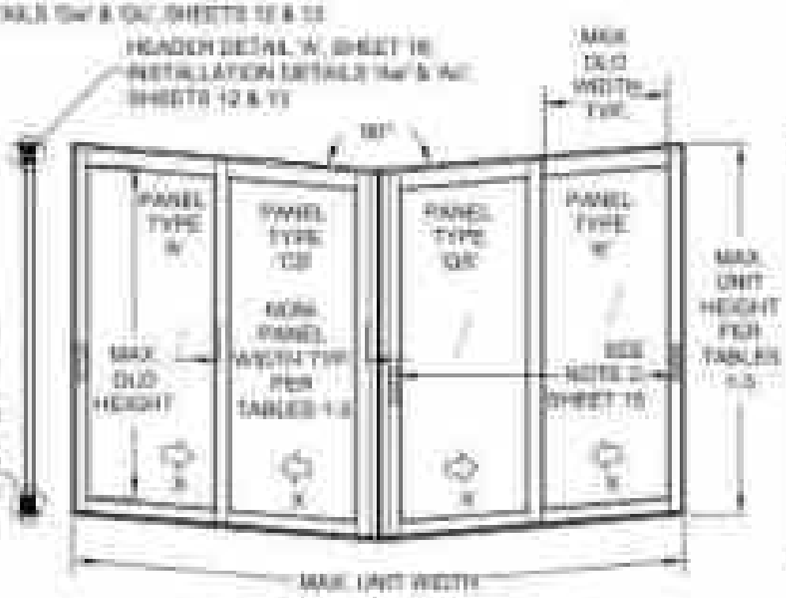
PGT
ALUMINUM SLIDING GLASS WINDOW
EXAMPLE ELEVATION
SCOTTSDALE

CONFIG. EXAMPLES

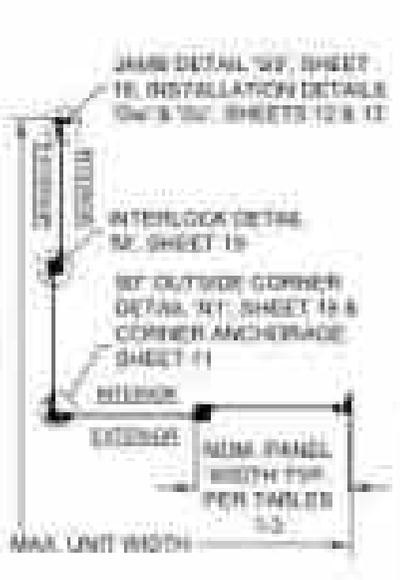
FOR ALL DETAILS ON THIS SHEET, SEE NOTES ON SHEET 15

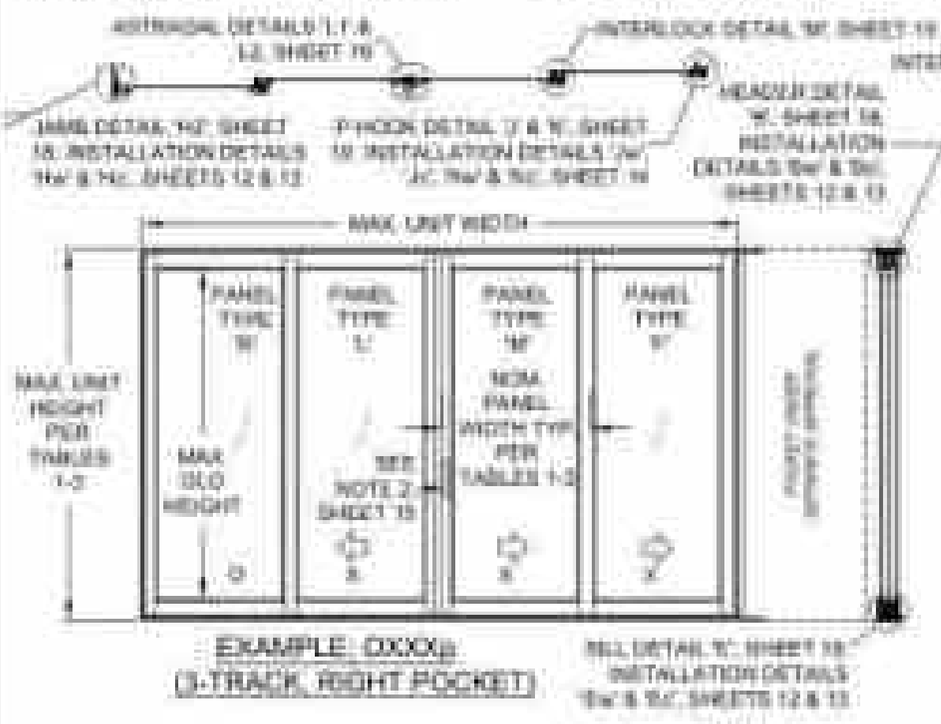


EXAMPLE: OXXX (2-TRACK)



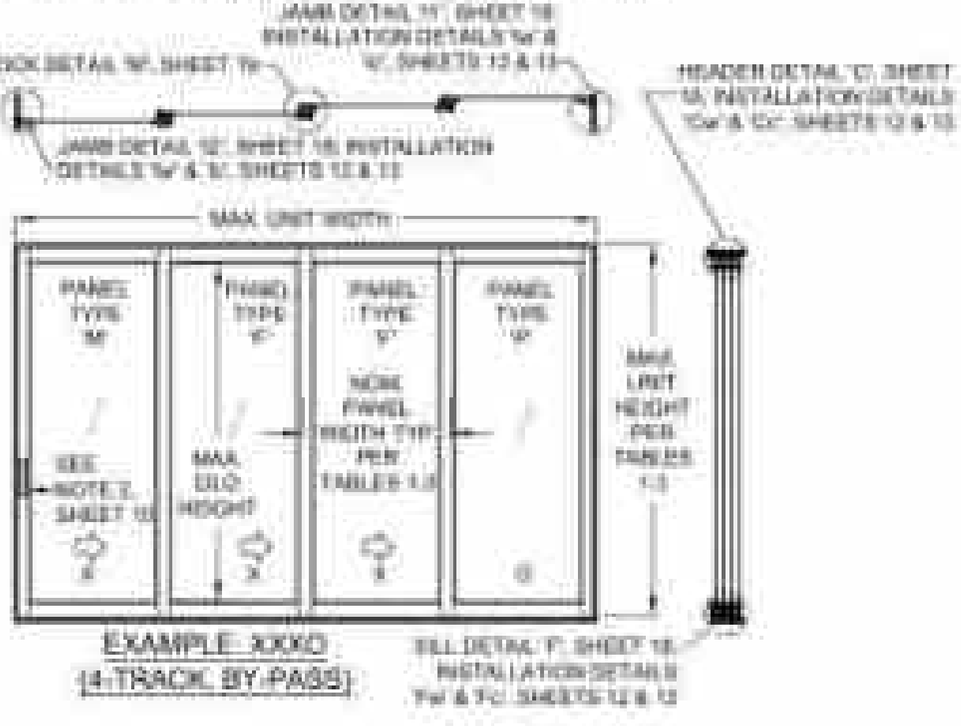
EXAMPLE: 90° OUTSIDE CORNER - XXXX (2-TRACK)





EXAMPLE: OXXXO
(3-TRACK, RIGHT POCKET)

SILL DETAIL 'E', SHEET 18, INSTALLATION DETAILS '5w' & '5x', SHEETS 12 & 13



EXAMPLE: XXXO
(4-TRACK, BY-PASS)

SILL DETAIL 'F', SHEET 18, INSTALLATION DETAILS '5w' & '5x', SHEETS 12 & 13

PGT
ALUMINUM-IMPACT GLASS WINDOW
EXAMPLE ELEVATION
SCALE: 1/8" = 1'-0"
SHEET 12 OF 19

WINDOW TYPE SERIES
DRAWING NO.
REVISIONS

WEIGHT LYON BILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PANEL TYPES	PANEL'S RIGHT STILE TYPE														
	SINGLE INTERLOCK (SI) OUT	SINGLE INTERLOCK (SI) IN	FIXED STILE	LOUVERED W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	ASTRAGAL BOX OUT W/ HANDLE	ASTRAGAL BOX IN W/ HANDLE	INT. CORNER W/ LOUVERED W/ HANDLE	EXT. CORNER W/ LOUVERED W/ HANDLE	EXT. CORNER W/ RECESSED W/ HANDLE	INT. CORNER W/ RECEIVER W/ HANDLE	EXT. CORNER W/ RECEIVER W/ HANDLE	EXT. CORNER W/ RECEIVER W/ HANDLE	INT. CORNER W/ RECEIVER W/ HANDLE
SINGLE INTERLOCK (SI) OUT		F	PP	K			L		TR	TQ	TC	TA		TV	TW
SINGLE INTERLOCK (SI) IN	B	E	P	A			C	C	IC	SQ	SC	SA		SV	SW
FIXED STILE	RR	R			S	S						FD	FC	FV	FW
LOUVERED W/ HANDLE	D	M			J	J									
ASTRAGAL BOX OUT W/ HANDLE	LR														
ASTRAGAL BOX IN W/ HANDLE		N													
ASTRAGAL BOX OUT			T	U											
ASTRAGAL BOX IN			T	U											
INT. CORNER W/ LOUVERED W/ HANDLE	RT	CI													
EXT. CORNER W/ LOUVERED W/ HANDLE	QT	QS													
EXT. CORNER W/ RECEIVER W/ HANDLE	CT	CS													
INT. CORNER W/ RECEIVER W/ HANDLE	AT	AS	DF												
EXT. CORNER W/ RECEIVER			CF												
EXT. CORNER W/ RECEIVER W/ HANDLE	VT	VS	VF												
INT. CORNER W/ RECEIVER W/ HANDLE	WT	WS	WF												

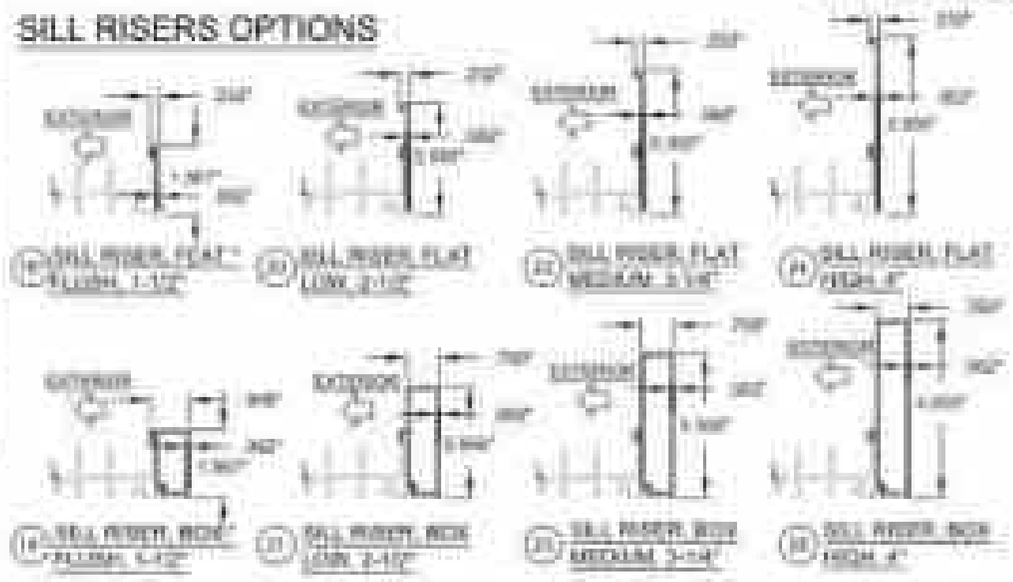
PANEL'S LEFT STILE TYPE



PANEL 'E' SHOWN. SEE TABLE FOR OTHER PANEL TYPES AND APPLICABLE STILE/ASTRAGAL REQUIREMENTS.

PANEL NOTES:
1. SEE DP TABLES 1-II, SHEETS 6-8 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN OR CROSSED OFF ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. 90° ASTRAGALS TO USE HEAVY DUTY STILES (#11), CORNER RECEIVER (#116) AND EITHER EXTERIOR (#119) OR INTERIOR (#120) CORNER ASTRAGALS.
4. 135° ASTRAGALS TO USE HEAVY DUTY STILES (#61) AND CORNER ADDON (#91).

SILL RISERS OPTIONS



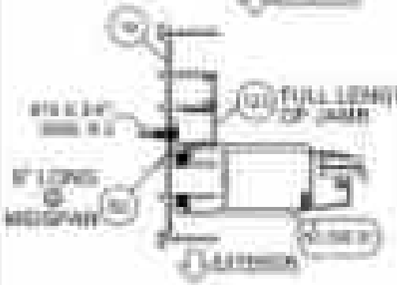
*NOT VALID FOR WATER INFILTRATION RESISTANCE REQUIREMENTS. SEE SHEETS 6-8

PGT
ALUMINUM SLIDING GLASS WINDOWS
PANEL TYPES
SCALE: NTS
SHEET 5 OF 11

ASSEMBLY DETAILS

(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)









2 TRACK JAMB (SHOWN WITH OPERABLE PANEL)



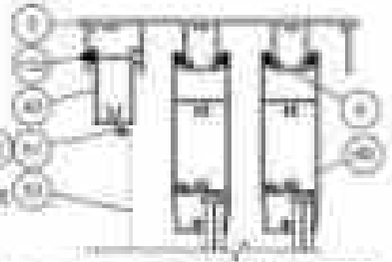
3 TRACK JAMB (SHOWN WITH FIXED PANEL TO THE EXTERIOR)



4 TRACK JAMB (SHOWN WITH FIXED PANEL TO THE INTERIOR)



4 TRACK JAMB (SHOWN WITH OPERABLE PANEL)

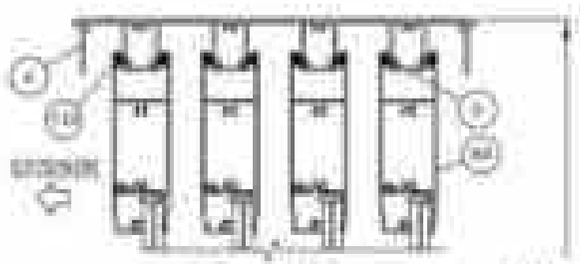


SHOWN WITH OPT. SCREEN TRACK

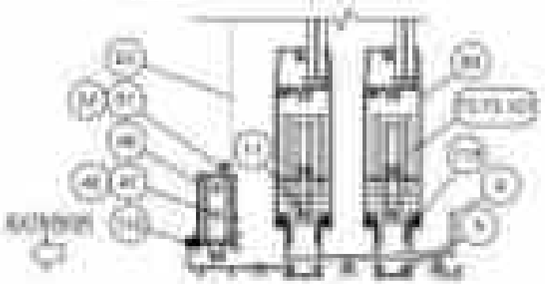
2 TRACK W/SCREEN FRAME HEAD



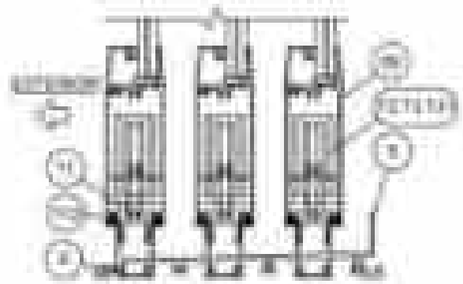
2 TRACK FRAME HEAD



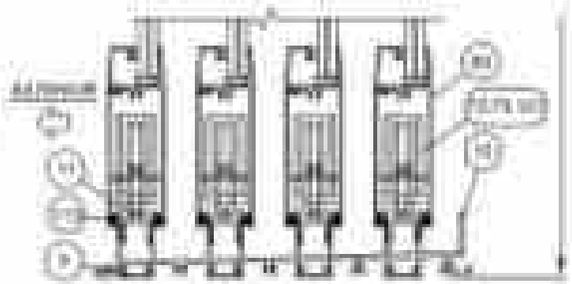
4 TRACK FRAME HEAD



2 TRACK W/SCREEN FRAME SILL



2 TRACK FRAME SILL



4 TRACK FRAME SILL

* ITEM 81 SHOWN. ITEM 80 ALSO APPLICABLE. SEE TABLES 1-3, SHEETS 8-9 FOR DP (PSF) ASSOCIATED WITH STYLE.

PGT

ALUMINUM SLIDING GLASS WINDOW

VERTICAL SECTION DETAILS

IDS

SCALE: 1/8" = 1'-0"

DATE: 11-15-19

SHEET NO. 11

WRIGHT LYON SELLS

No. 38705

STATE OF FLORIDA

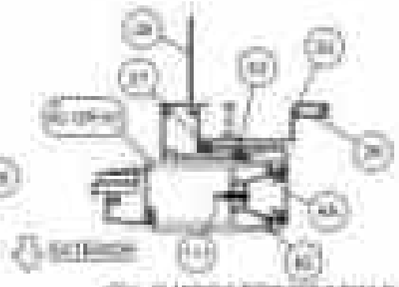
PROFESSIONAL ENGINEER

ASSEMBLY DETAILS

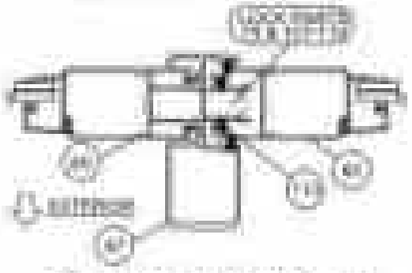
(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)



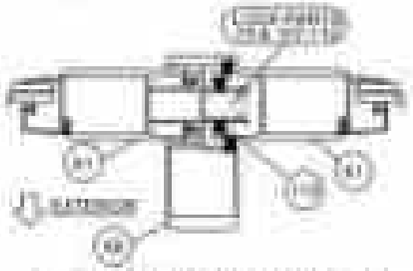
(2) 4" HOOK FOR FLAT WALLS
EXT. OR INT. MOUNT



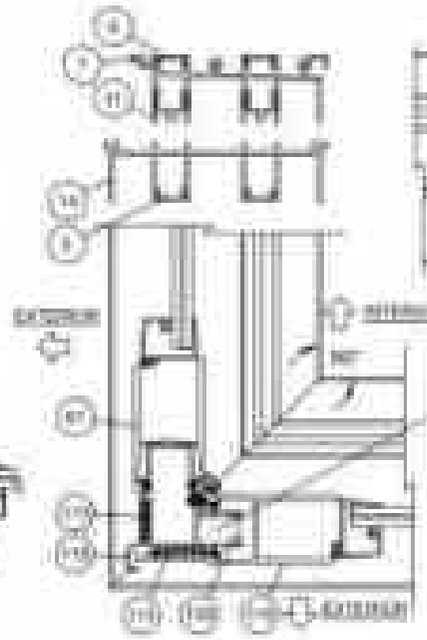
(3) 4" HOOK FOR BRICK WALLS
EXT. MOUNT ONLY



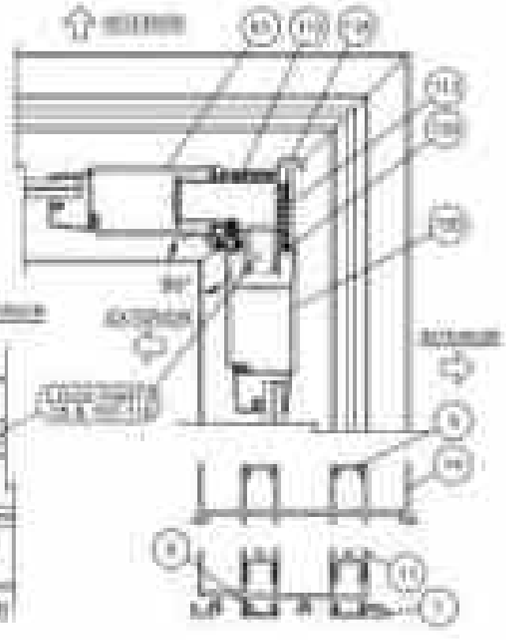
(4) STANDARD ASTRAGAL #42
(5) (STD STANDARD STYLE) #58
EXTERIOR BOX ASTRAGAL SHOWN
(BOX-OUT) MAY ALSO BE INSTALLED
TOWARDS INTERIOR (BOX-IN)



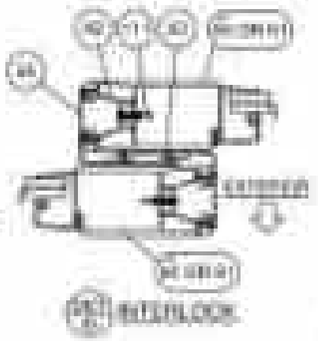
(6) HEAVY DUTY ASTRAGAL #68
(7) WITH HEAVY DUTY STYLE #61
EXTERIOR BOX ASTRAGAL SHOWN
(BOX-OUT) MAY ALSO BE INSTALLED
TOWARDS INTERIOR (BOX-IN)



(8) 90° OUTSIDE CORNER
(9) 2 TRACK SHOWN

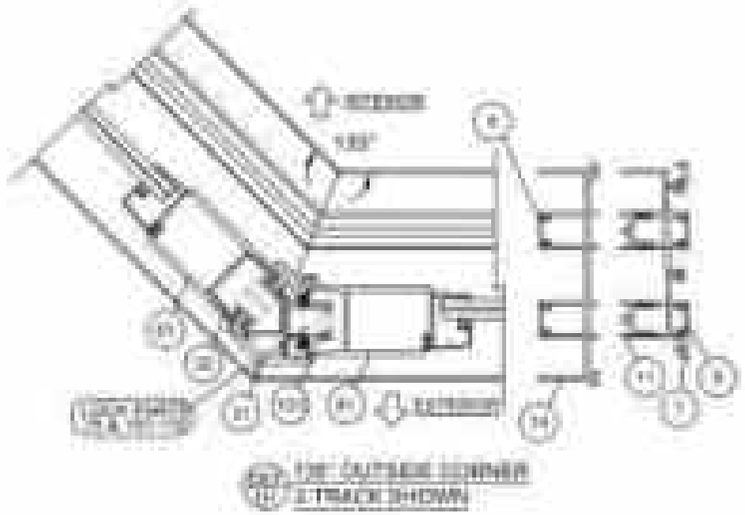


(10) 90° INSIDE CORNER
2 TRACK SHOWN

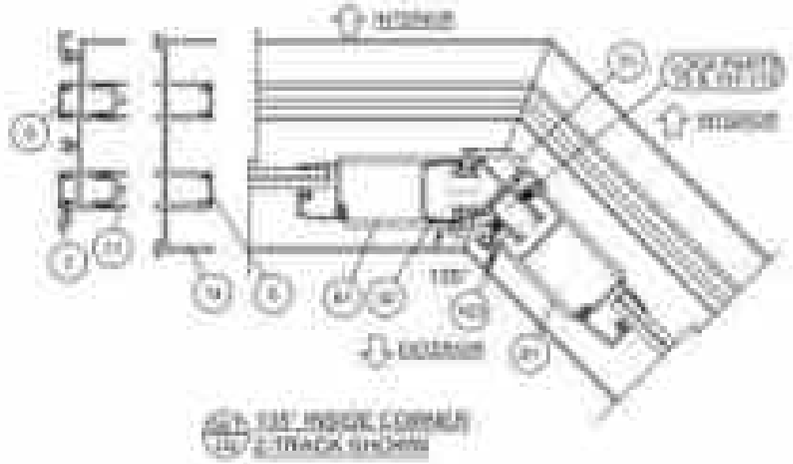


(11) MULLION

(1) ITEM #61 (HEAVY DUTY STYLE) SHOWN. ITEM #58 (STANDARD STYLE) ALSO APPLICABLE. SEE TABLES 1-3, SHEETS 8-8.1 FOR DP (PSF) ASSOCIATED WITH STYLES.



(12) 135° OUTSIDE CORNER
(13) 2 TRACK SHOWN



(14) 135° INSIDE CORNER
2 TRACK SHOWN

PGT

ALUMINUM SLIDING GLASS WINDOWS

HORIZONTAL SECTION DETAILS

SCOTT LYON SEAL

TABLE 1

Item	PGT Dwg. #	PGT #	Description
1	11304	611308	2 TRACK HEAD
2	11305	611309	2 TRACK HEAD WITH SCREEN RAIL
3	11306	611304	3 TRACK HEAD
4	11312	611312	4 TRACK HEAD
5	11314	611314	FRAME SUNDA COVER
6	11311	611311	FRAME HEAD ANGLE
7	11304	611304	2 TRACK SILL
8	11307	611307	2 TRACK SILL WITH SCREEN RAIL
9	11307	611307	3 TRACK SILL
10	11310	611310	4 TRACK SILL
11	11315	611315	FRAME SILL TRACK MOUNT
12	11316	611316	FRAME SILL SCREEN ADD-ON (SEE NOTE 1)
13	11318	611318	FRAME SILL SCREEN END ADD-ON (SEE NOTE 1)
14	11304	611304	2 TRACK JAMB
15	11302	611302	2 TRACK JAMB WITH SCREEN RAIL
16	11308	611308	3 TRACK JAMB
17	11311	611311	4 TRACK JAMB
18	11320	611320	SILL RISER - FLAT SUBSILL 1-1/2"
19	11319	611319	SILL RISER - BOX SUBSILL 1-1/2"
20	11321	611321	SILL RISER - FLAT LINK 2-1/2"
21	11318	611318	SILL RISER - BOX LINK 2-1/2"
22	11302	611302	SILL RISER - FLAT MEDIUM 3-1/4"
23	11304	611304	SILL RISER - BOX MEDIUM 3-1/4"
24	11323	611323	SILL RISER - FLAT HIGH 4"
25	11324	611324	SILL RISER - BOX HIGH 4"
26	11310	611310	POCKET P-HOOK
27	7077	87077	MULLION/SILL BLADE STOP FOR P-HOOK
28	11314	611314	POCKET P-HOOK MOUNT
29	11324	611324	P-HOOK COVER
30	11348	611348	POCKET P-HOOK FOR BOX RISER
31	11378	611378	I.S. CORNER
32	11379	611379	I.S. FIELD MOUNT
ITEMS 40-43 ARE SCREWS AND PARTS			
40	4132	41204	SCREW SDS RHS - SOCKET
41		70230W038	WASHER LOCKNUT
42		41410	SCREW ZYTEL SPACER RIVET
43	4132	38102	SCREW SPACER FOR ADAPTER
44	4428	44428	SCREW DOUBLE INTERLOCK
45	4317	41209	SCREW TOP RAIL
46	4315	41207	SCREW BOTTOM RAIL

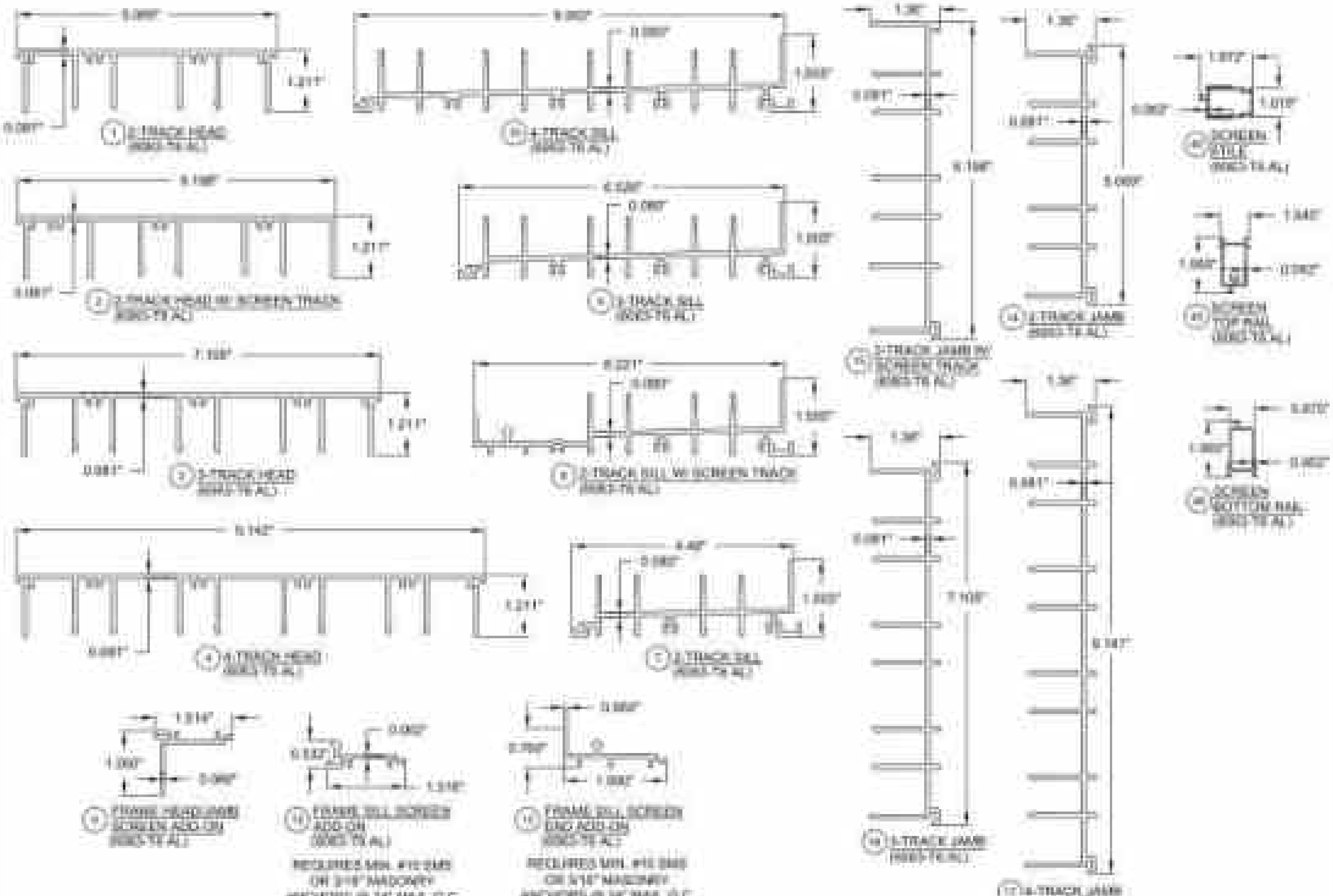
Item	PGT Dwg. #	PGT #	Description
47	7000	70001	[illegible]
48	7000	70001	[illegible]
49	11304	38304	[illegible]
50	11305	41308	[illegible]
51	7000	41405	[illegible]
52	7000	41401	[illegible]
53		41410	[illegible]
54			[illegible]
55	11307	41308	[illegible]
56	11304	41308	[illegible]
57	11317	41311	[illegible]
58	7000	38308	[illegible]
59	7000	41308	[illegible]
60	11320	611320	[illegible]
61	11304	41308	[illegible]
62	7000	41308	[illegible]
63	11304	41304	[illegible]
64	7000	41308	[illegible]
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119	7000	41308	[illegible]
120	7000	41308	[illegible]
121	7000	41308	[illegible]
122	7000	41308	[illegible]

NOTES:
1) ALL ALUMINUM = 6063-T5

2) ITEMS # 33-36, 38-39, 86, 76, 84-85, 121 & 122 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

3) USE OF #12 OR #13 REQUIRES MIN. #10 SMS OR 3/16" MASONRY ANCHORS @ 24" MAX. O.C.

PGT
ALUMINUM SLIDING GLASS WINDOW
BILL OF MATERIALS



REQUIRES MIN. #10 SMS OR 3/16" MASONRY ANCHORS @ 24" MAX. O.C.

REQUIRES MIN. #10 SMS OR 3/16" MASONRY ANCHORS @ 24" MAX. O.C.

SEE SHEET 17 FOR SILL RISERS

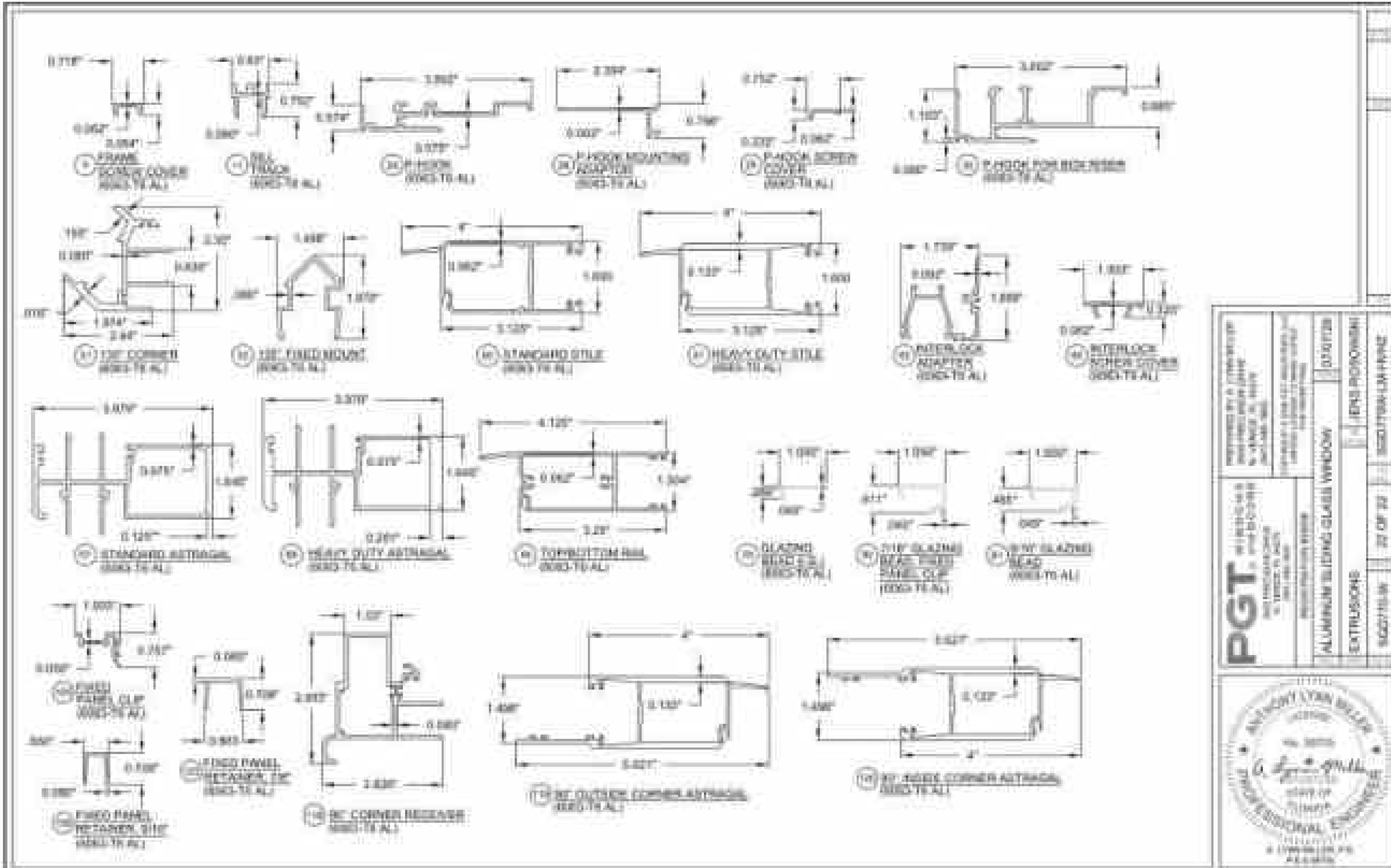
PGT

ALUMINUM SLIDING GLASS WINDOW

EXTRUSIONS

ANTHONY LYNN MILLER

PROFESSIONAL ENGINEER


FRAME SCREW COVER (6063-T6 AL.)
SILL TRACK (6063-T6 AL.)
P-HOOK (6063-T6 AL.)
P-HOOK MOUNTING ADAPTOR (6063-T6 AL.)
P-HOOK SCREW COVER (6063-T6 AL.)
P-HOOK FOR BOX SCREEN (6063-T6 AL.)
135° CORNER (6063-T6 AL.)
135° FIXED MOUNT (6063-T6 AL.)
STANDARD STILE (6063-T6 AL.)
HEAVY DUTY STILE (6063-T6 AL.)
INTERLOCK ADAPTER (6063-T6 AL.)
INTERLOCK SCREW COVER (6063-T6 AL.)
STANDARD ASTRAGAL (6063-T6 AL.)
HEAVY DUTY ASTRAGAL (6063-T6 AL.)
TOP/BOTTOM RAIL (6063-T6 AL.)
FIXED PANEL CLIP (6063-T6 AL.)
FIXED PANEL RETAINER (6063-T6 AL.)
90° CORNER RECEIVER (6063-T6 AL.)
90° OUTSIDE CORNER ASTRAGAL (6063-T6 AL.)
90° INSIDE CORNER ASTRAGAL (6063-T6 AL.)
PGT
ALUMINUM SLIDING GLASS WINDOW
EXTRUSIONS