Engineering Evaluation Report #770NS-W-08132026

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

Product Description:
SGD770NS-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).

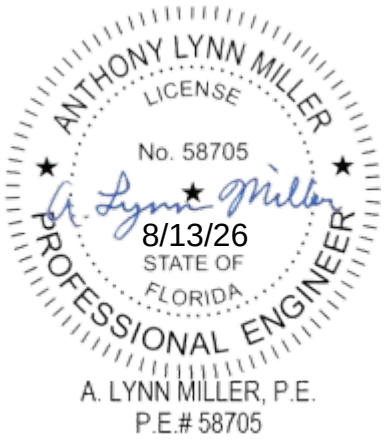
Supporting Technical Documentation:
1. Approval document: drawing number SGD770W-LM-HVHZ-NS, signed and sealed by A. Lynn Miller, P.E.

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, and QAI NOK-0013; signed and sealed by Idalmis Ortega, P.E.
Fenestration Testing Laboratories, Medley, FL 33166

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 SGD720NB W, IMPACT RESISTANT, NARROW STILE 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 CLADDING 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.

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)	5/16"	1"	1-1/4"
			6063-T5 Aluminum	3/8"	5/16"	0.07"* (20 Ga)
			A36 Steel	3/8"	5/16"	0.059"
			Gr. 33 Steel Stud	3/8"	5/16"	0.045" (18 Ga)
	1/4" 304 SS Aggre-Gator	All	Concrete (min. 2.22 ksi)	1-1/2"	3"	1-1/4"
		Jamb / P-hook	Grouted Block (ASTM C90)	2"	3"	2"
		Jamb / P-hook	Ungrouted Block (ASTM C90)	2"	3"	1-1/2"
		All	Southern Pine (SG = 0.55)	1"	1"	1-1/4"
B	#12 SMS Carbon Steel	All	Southern Pine (SG = 0.55)	5/16"	1"	1-1/4"
			6063-T5 Aluminum	3/8"	5/16"	0.07"* (20 Ga)
			A36 Steel	3/8"	5/16"	0.059"
			Gr. 33 Steel Stud	3/8"	5/16"	0.045" (18 Ga)
C	1/4" Steel LittaCon	Head / Sill	Concrete (min. 3 ksi)	1-5/16"	4"	1-3/4"
		Jamb / P-hook	Concrete (min. 3 ksi)	1"	4"	1-3/4"
		Jamb / P-hook	Ungrouted Block (ASTM C90)	1"	3"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1"	1-1/4"
D	1/4" 410 SS CrestTite	Head / Sill	Concrete (min. 3.25 ksi)	1"	4"	1-3/4"
		Jamb / P-hook	Concrete (min. 3.25 ksi)	1"	6"	1-3/4"
		Jamb / P-hook	Ungrouted Block (ASTM C90)	2-1/2"	3"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1"	1-3/4"

* DEPTH OF 5 THREADS BEYOND THE METAL SUBSTRATE
(E.G. SCREW SHALL THREAD ARE APPLICABLE)
(1) PGT FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 316 STAINLESS STEEL PER ASTM A240.
LOT CONTAINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE LEAF.
(2) UNGROUTED CMU* VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

WHERE THE PRODUCT WILL BE INSTALLED WITHIN 1,500 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R322 OF THE FBC, RESIDENTIAL.

GENERAL NOTES 1
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CROSS SECTIONS 17,18
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EXTRUSIONS 20,21

DESIGN PRESSURE RATING
SEE TABLE(S) 1-3

WATER TEST PRESSURE
[illegible]

IMPACT RATING
LARGE AND SMALL MISSILE IMPACT RESISTANT
MISSILE LEVEL D, WIND ZONE 4

PGT WINDOWS & DOORS
1070 TECHNOLOGY DRIVE
NORTH VENICE, FL 34275
PHONE: 941-480-1600
WEB: WWW.PGTINDUSTRIES.COM

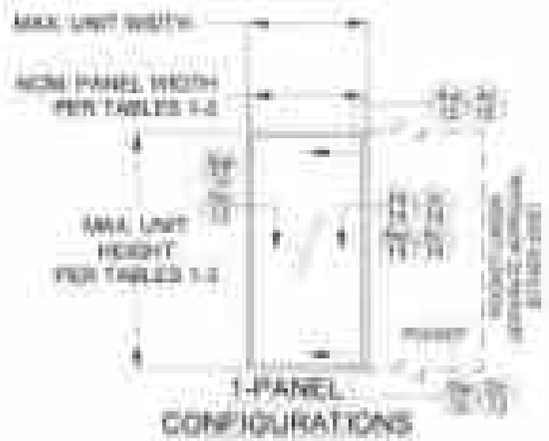
ALUMINUM SLIDING GLASS WINDOW

GEN. NOTES AND ANCHOR

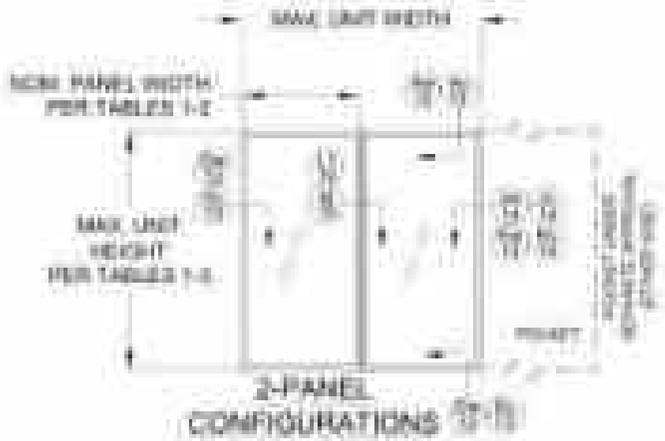
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SCALE: AS NOTED
SHEET NO. 1 OF 21
REVISIONS

REGISTERED ENGINEER
STATE OF FLORIDA

EXAMPLE CONFIGURATIONS



1-PANEL CONFIGURATIONS



2-PANEL CONFIGURATIONS

CONFIGURATIONS NOTES:

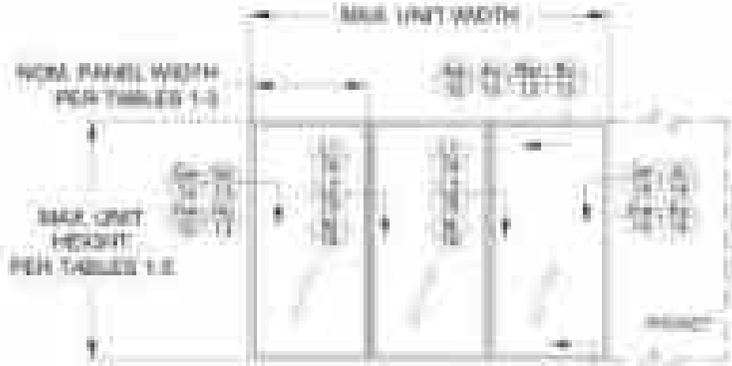
1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Je", "Jd", "Re" OR "Rd" INSTALLATION. EXAMPLE: 4-PANEL XOOO IN POCKET (p) CONFIGURATION CAN BE pOOOOp, pOOOOr OR XOOOp. OOOO IN POCKET CONFIGURATION CAN BE OOOOp.

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

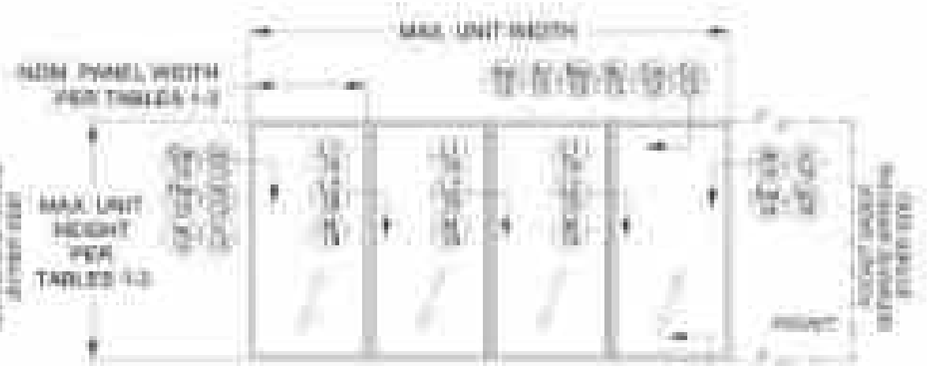
3) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.

4) FOR INSTALLATIONS IN THE HVHZ, LIMIT FRAME SQUARE FOOTAGE TO 375 S.F.

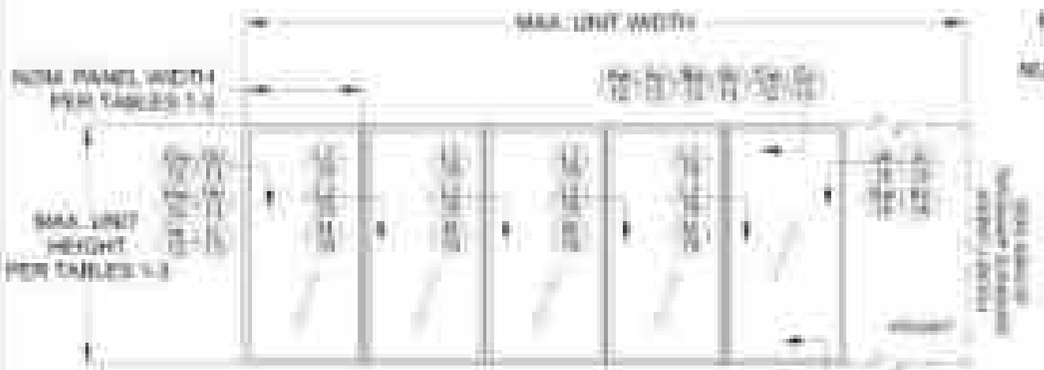
"X" = OPERABLE PANEL
"O" = INOPERABLE PANEL
"P" = POCKET



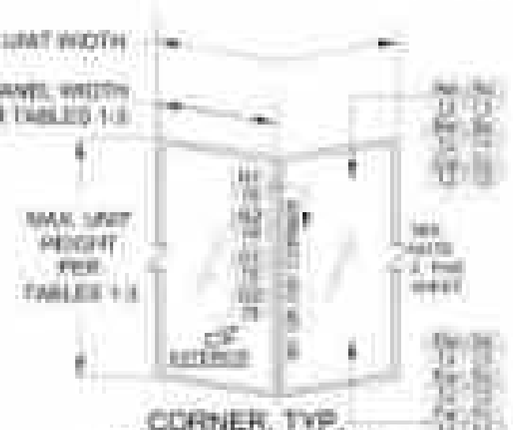
3-PANEL CONFIGURATIONS



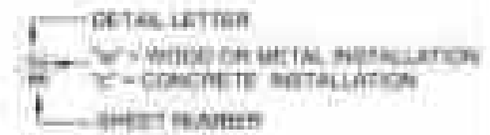
4-PANEL CONFIGURATIONS



5-PANEL CONFIGURATIONS



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



GLASS WIDTH = NOMINAL PANEL WIDTH - 5.25"
GLS WIDTH = NOM. PANEL WIDTH - 4.75"
GLS HEIGHT = WINDOW UNIT HEIGHT - 10.125"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1.969"

PGT WINDOWS

ALUMINUM SLIDING GLASS WINDOWS

EXAMPLE CONFIGURATIONS

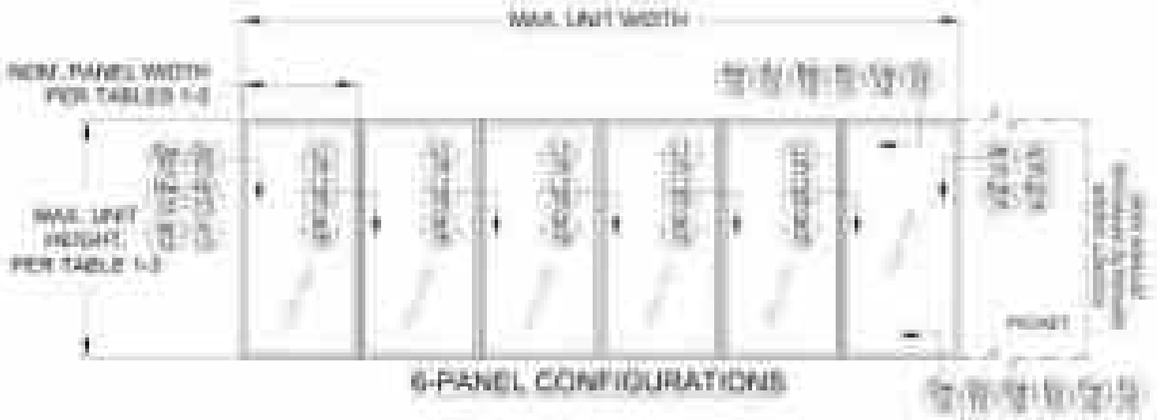
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REVISIONS

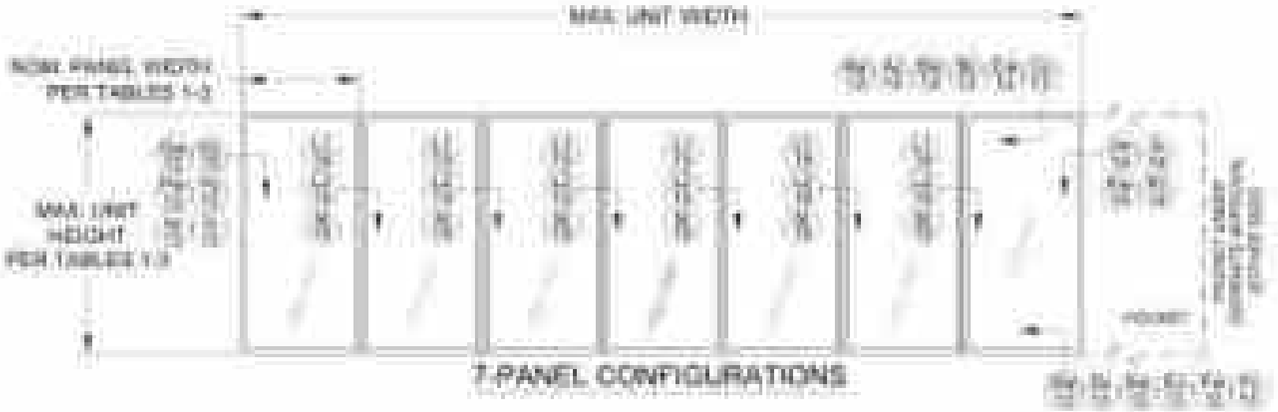
NO.	DESCRIPTION	DATE
1	ENG. REVISIONS	11-07-17

WEIGHT LYNN GILES
FLORIDA PROFESSIONAL ENGINEER
No. 58705
STATE OF FLORIDA

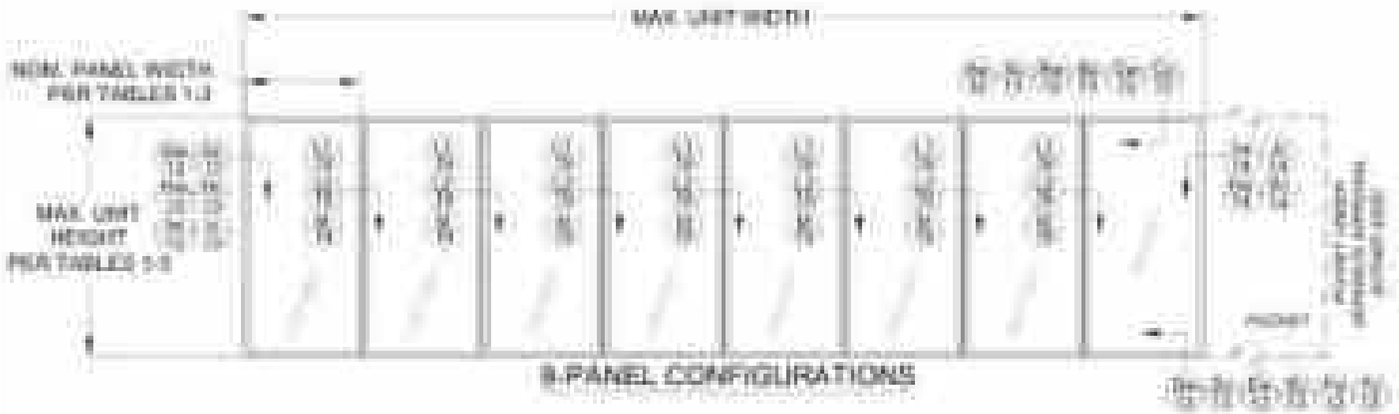
EXAMPLE CONFIGURATIONS



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 "JA", "JI", "NJA" OR "NJI" INSTALLATION. EXAMPLE: A PANEL XXXA IN POCKET (p) CONFIGURATION CAN BE pXXXAp, pXXXP OR XXXdp. 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.

4) FOR INSTALLATION IN THE HIGHE UNIT PANEL SQUARE FOOTAGE TO 375.0 F.

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

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

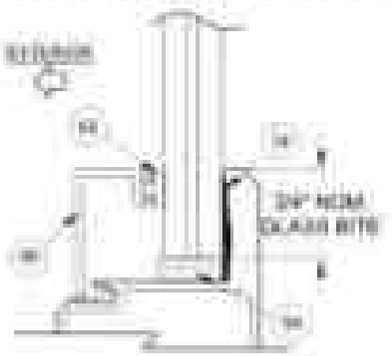
GLASS WIDTH = NOMINAL PANEL WIDTH - 3.25"
GLD WIDTH = NOM. PANEL WIDTH - 4.75"
GLD HEIGHT = WINDOW UNIT HEIGHT - 10.125"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1.969"

PGT
ALUMINUM SLIDING WINDOWS
EXAMPLE CONFIGURATIONS
DRAWING NO. [illegible]
SHEET NO. [illegible]

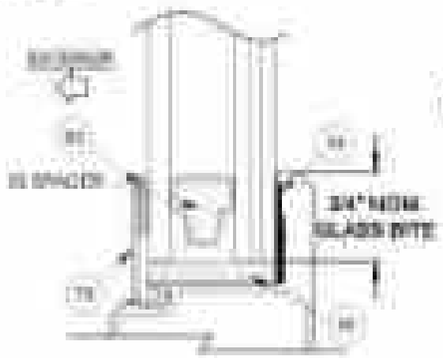
TABLE II

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

HC = HEAT CONDENSED
TP = TEMPERED
PVB = PRODUCED, PVB INTERLAYER BY KURARAY AMERICA, INC.
SGP = SENTRYGLAS PVB INTERLAYER BY KURARAY AMERICA, INC.



LAMI. GLAZING DETAIL



LAMI. IG GLAZING DETAIL



GLASS TYPE 3



GLASS TYPE 3A



GLASS TYPE 4



GLASS TYPE 4A
1" NOM. GLASS STACK



GLASS TYPE 5
1" NOM. GLASS STACK



GLASS TYPE 5A
1" NOM. GLASS STACK

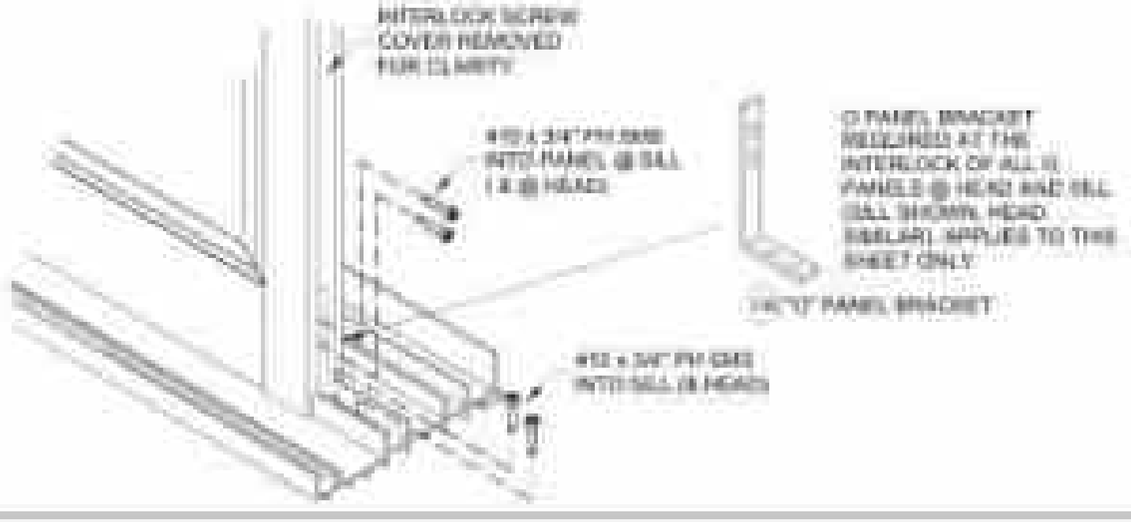


GLASS TYPE 6
1" NOM. GLASS STACK



GLASS TYPE 6A
1" NOM. GLASS STACK

FIXED PANEL BRACKET INSTALLATION



PGT
ALUMINUM SLIDING GLASS WINDOWS
GLAZING DETAILS

REGISTERED PROFESSIONAL ENGINEER

Table 1

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

For corner mullinged windows (>45° or <90° interior angle, see detail 10)

+60 / -60 psf

Table applies to Notes Types 3, 3A, 5, & 5A. Sq. inch, mullion; not listed "0's", page 11. Pos. (+)DP may be limited by Table 1A.

Nominal Panel Width (in)			Item Unit Height																			
			63"				64"				80"				80"				96"			
			5'-3" (1.60)				5'-4" (1.63)				6'-8" (2.03)				8'-0" (2.44)				8'-3" (2.51)			
			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
24"	6'-1/4" (1.87)	Head/Sill	C4+1	C3+1	C4+1	C4+1	C4+1	C3+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1
		Jamb	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	6	6	6
		P Posts	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
32"	7'-1/4" (2.17)	Head/Sill	C4+1	C3+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1
		Jamb	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	6	6	6
		P Posts	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
40"	7'-11/4" (2.41)	Head/Sill	C4+1	C3+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1	C4+1
		Jamb	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	6	6	6
		P Posts	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
48"	9'-1/4" (2.77)	Head/Sill	C4+1	C3+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1	C4+1
		Jamb	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	6	6	6
		P Posts	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8
60"	10'-1/4" (3.07)	Head/Sill	C4+1	C3+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C5+1	C5+1	C4+1	C4+1	C4+1
		Jamb	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	6	6	6
		P Posts	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8

FOR EXAMPLE ON USING TABLE, SEE SHEET 8

Table 1A

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 10)	(+) Design Pressure, psf
Flush - 1 1/2"	see note 2
Low - 2 1/2"	+ 40.0
Medium - 3 1/4"	+ 60.0
High - 4"	+ 60.0

See NOTES BELOW

NOTES:
1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 1 AND TABLE 1A DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IN THAT CASE, +DP'S SHOWN IN TABLE 1 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 10. SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

4) REFER TO ANCHOR NOTES, SHEET 1 & ENCLOSED SHEETS FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.

5) DOOR 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.

FIG 1



WHEN USED IN A PASS THROUGH WINDOW APPLICATION A MIN. 5-PT OVERHANG IS REQUIRED PER THE CURRENT BUILDING CODE.

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

GLASS WIDTH = NOMINAL PANEL WIDTH -3.25"
OLD WIDTH = NOM. PANEL WIDTH - 4.75"
OLD HEIGHT = WINDOW UNIT HEIGHT - 10 1/2"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1 5/8"

PGT
ALUMINUM SLIDING GLASS WINDOW
DP & ANCHORAGE
R-PA 2

TABLE 1

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

For noise reading on design in 65' or 120' corner, refer note sheet 3

Table applies to: Glass Table 1, (2), & 3 (Lb) Actual Annealed, Min glass 3/4", glaze (4) For +/-DP may be limited by Table 2A			Window Ht. (Inch)															
			36" Jamb Mullion				48" Jamb Mullion				60" Jamb Mullion				80" Jamb Mullion			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	16-1/4" O.A.	Design Pressure	For these sizes: see table 1 on sheet 5															
		Max.(PSF)																
		+/-DP(PSF)																
		Anchor Type																
36"	20-1/4" O.A.	Design Pressure																
		Max.(PSF)																
		+/-DP(PSF)																
		Anchor Type																
48"	24-1/4" O.A.	Design Pressure																
		Max.(PSF)																
		+/-DP(PSF)																
		Anchor Type																
60"	28-1/4" O.A.	Design Pressure																
		Max.(PSF)																
		+/-DP(PSF)																
		Anchor Type																
72"	32-1/4" O.A.	Design Pressure	+/-50.0 psf				+/-50.0 psf				+/-50.0 psf				+/-50.0 psf			
		Max.(PSF)	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
		+/-DP(PSF)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		Anchor Type	7HB	7HB	7HB	7HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB
96"	40-1/4" O.A.	Design Pressure	+/-50.0 psf				+/-50.0 psf				+/-50.0 psf				+/-50.0 psf			
		Max.(PSF)	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
		+/-DP(PSF)	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		Anchor Type	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB	8HB

FOR EXAMPLE ON USING TABLE SEE SHEET 5

TABLE 2A

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

Sill Riser Height (Flat or Size, see Sheet 16)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 2
Low - 2-1/2"	+ 46.5*
Medium - 3-1/8"	+ 50.0
High - 4"	+ 50.0

SEE NOTES BELOW

NOTES:
1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 2 AND TABLE 2A DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IN THAT CASE, +DP'S SHOWN IN TABLE 2 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 16. SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

4) REFER TO ANCHOR NOTES, SHEET 1 & ENCLOSED SHEETS FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.

5) DOOR 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.

FIG 1



WHEN USED IN A PASS-THROUGH WINDOW APPLICATION A MIN. 6-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.

GLASS WIDTH = NOMINAL PANEL WIDTH -0.25"
SLD. WIDTH = NOM. PANEL WIDTH - 4.75"
SLD. HEIGHT = WINDOW UNIT HEIGHT - 93 1/25"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 4.969"

PGT
ALUMINUM IMPACT SINGLE HUNG WINDOW
DP & ANCHORAGE
DRAWING NO. 2
SHEET NO. 4

TABLE 3

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 3 & 4)

Full screen and legal anchorage on 80" or 120" screen units, size shown +/-

+50 / -50 psf

Table applies to: Glass Types 4, 4A, 5, 5A. No relief, uncoiled sash detail "S12", page 15. Then, (+) DP may be verified by Table 3A.

Nominal Panel Width	Overall Unit Width	Frame/DP/A	Design Pressure (DP)	Four Corner Anchor Group A				Four Corner Anchor Group B				Four Corner Anchor Group C				Four Corner Anchor Group D			
				A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	7'-11/2" (2x12)	Frame/DP/A	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	(24)+1	
		Jamb	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
		Anchor	5+7	6+7	6+7	6+7	5+7	5+7	5+7	5+7	7+9	7+9	7+9	7+9	7+10	7+10	7+10	7+10	
30"	9'-11/2" (3x12)	Frame/DP/A	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	
		Jamb	9	9	9	9	9	9	9	9	9	9	9	9	10	9	9	9	
		Anchor	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+9	7+9	7+9	7+9	7+10	7+10	7+10	7+10	
36"	11'-11/2" (3x12)	Frame/DP/A	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	
		Jamb	9	8	8	8	10	9	9	8	10	8	8	8	10	9	9	8	
		Anchor	6+7	6+7	6+7	6+7	6+7	6+7	6+7	6+7	7+9	7+9	7+9	7+9	7+10	7+10	7+10	7+10	
42"	13'-11/2" (3x12)	Frame/DP/A	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	(28)+1	
		Jamb	10	9	9	9	10	9	9	9	12	9	9	9	12	10	9	9	
		Anchor	8+7	8+7	8+7	8+7	7+10	7+10	7+10	7+10	7+10	7+10	7+10	7+10	8+10	8+10	8+10	8+10	
48"	15'-11/2" (3x12)	Frame/DP/A	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	(28)+2	
		Jamb	10	9	9	9	12	9	9	9	17	10	9	9	14	12	9	9	
		Anchor	7+10	7+10	7+10	7+10	7+10	7+10	7+10	7+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	

FOR EXAMPLE ON USING TABLE, SEE SHEET 5.

TABLE 3A

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

Sill Rear Height (Flex or Box, see Sheet 16)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 2
Low - 3-1/2"	+ 40.07
Medium - 5-1/8"	+ 60.0
High - 8"	+ 60.0

SEE NOTES BELOW

EXAMPLE ON SHEET 5

NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 3 AND TABLE 3A DETERMINES THE WATER LIMITED (+) DP. WATER TEST PRESSURE IS 15% OF THAT VALUE.

2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1, A SILL RISER IS NOT REQUIRED. IN THAT CASE, +DP'S SHOWN IN TABLE 3 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 16. SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

4) REFER TO ANCHOR NOTES, SHEET 1 & ENCLOSED SHEETS FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.

5) DOOR 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.

FIG 1

5 FT MIN.

8 INCHES MIN.

WHEN USED IN A PASS-THROUGH WINDOW APPLICATION A MIN. 5-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.

GLASS WIDTH = NOMINAL PANEL WIDTH -3.25"
OLD WIDTH = NOM. PANEL WIDTH - 4.75"
OLD HEIGHT = WINDOW UNIT HEIGHT - 10 1/2"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1.969"

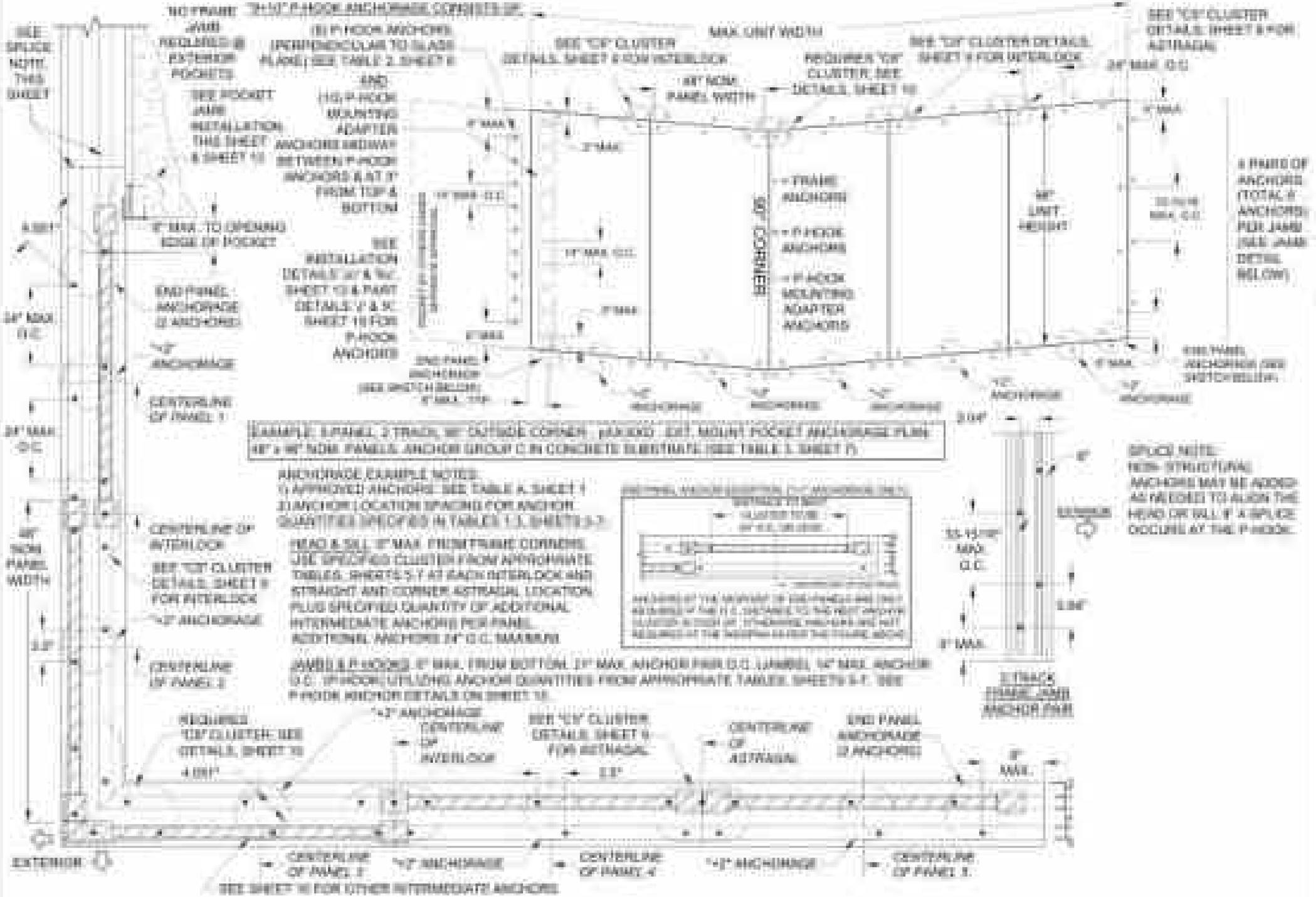
PGT
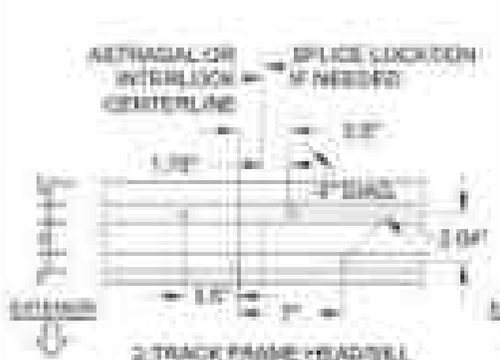
ALUMINUM IMPACT SLIDING GLASS WINDOW

DP 50 ANCHORAGE

ENGINEERING

SHEET 3 OF 16


SEE SPLICE NOTE THIS SHEET
NO FRAME JAMB REQUIRED @ EXTERIOR POCKETS
SEE POCKET JAMB INSTALLATION THIS SHEET & SHEET 10
8" MAX. TO OPENING EDGE OF POCKET
END PANEL ANCHORAGE (2 ANCHORS)
"J" ANCHORAGE
CENTERLINE OF PANEL 1
24" MAX O.C.
48" NOM. PANEL WIDTH
3.0"
CENTERLINE OF INTERLOCK
SEE "CO" CLUSTER DETAILS, SHEET 9 FOR INTERLOCK
"J" ANCHORAGE
CENTERLINE OF PANEL 2
(5) P-HOOK ANCHORS (PERPENDICULAR TO GLASS PLANE) SEE TABLE 2, SHEET 6
AND
(10) P-HOOK MOUNTING ADAPTER ANCHORS MIDWAY BETWEEN P-HOOK ANCHORS & AT 8" FROM TOP & BOTTOM
SEE INSTALLATION DETAILS 'AI' & 'NA', SHEET 10 & PART DETAILS 'J' & 'K', SHEET 10 FOR P-HOOK ANCHORS
8" MAX.
19" MAX. O.C.
8" MAX.
END PANEL ANCHOR (SEE SKETCH BELOW) 8" MAX. TYP.
"3" ANCHORAGE EXAMPLE NOTES:
1) APPROVED ANCHORS: SEE TABLE A, SHEET 1
2) ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLES 1-3, SHEETS 3-7:
HEAD & SILL: 8" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM APPROPRIATE TABLES, SHEETS 5-7 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: 8" MAX. FROM BOTTOM, 24" MAX. ANCHOR PAIR O.C. (JAMBS), 14" MAX. ANCHOR O.C. (P-HOOK) UTILIZING ANCHOR QUANTITIES FROM APPROPRIATE TABLES, SHEETS 5-7. SEE P-HOOK ANCHOR DETAILS ON SHEET 10.
SEE SHEET 10 FOR OTHER INTERMEDIATE ANCHORS
MAX. UNIT WIDTH
SEE "CO" CLUSTER DETAILS, SHEET 9 FOR INTERLOCK
REQUIRES "CO" CLUSTER, SEE DETAILS, SHEET 10
SEE "CO" CLUSTER DETAILS, SHEET 9 FOR INTERLOCK
24" MAX. O.C.
8" MAX.
48" NOM. PANEL WIDTH
3" MAX.
19" MAX. O.C.
8" MAX.
90° CORNER
= FRAME ANCHORS
= P-HOOK ANCHORS
= P-HOOK MOUNTING ADAPTER ANCHORS
96" UNIT HEIGHT
8" MAX.
6 PAIRS OF ANCHORS (TOTAL 6 ANCHORS) PER JAMB (SEE JAMB DETAIL BELOW)
END PANEL ANCHORAGE (SEE SKETCH BELOW)
"J" ANCHORAGE
"J" ANCHORAGE
"J" ANCHORAGE
"C" ANCHORAGE
3.04"
6"
8" MAX.
3.04"
8" MAX.
SPLICE NOTE:
NON- STRUCTURAL ANCHORS MAY BE ADDED AS NEEDED TO ALIGN THE HEAD OR SILL IF A SPLICE OCCURS AT THE P-HOOK.
EXAMPLE: 5 PANEL, 2 TRACK, 90° OUTSIDE CORNER, ANODIZED, EXT. MOUNT POCKET ANCHORAGE PLAN
48" x 96" NOM. PANELS, ANCHOR GROUP C IN CONCRETE SUBSTRATE (SEE TABLE 3, SHEET 7)
ANCHORAGE EXAMPLE NOTES:
1) APPROVED ANCHORS: SEE TABLE A, SHEET 1
2) ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLES 1-3, SHEETS 3-7:
HEAD & SILL: 8" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM APPROPRIATE TABLES, SHEETS 5-7 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: 8" MAX. FROM BOTTOM, 24" MAX. ANCHOR PAIR O.C. (JAMBS), 14" MAX. ANCHOR O.C. (P-HOOK) UTILIZING ANCHOR QUANTITIES FROM APPROPRIATE TABLES, SHEETS 5-7. SEE P-HOOK ANCHOR DETAILS ON SHEET 10.
REQUIRES "CB" CLUSTER, SEE DETAILS, SHEET 10
4.091"
"J" ANCHORAGE CENTERLINE OF INTERLOCK
SEE "CV" CLUSTER DETAILS, SHEET 9 FOR ASTRAGAL
2.5"
CENTERLINE OF ASTRAGAL
END PANEL ANCHORAGE (2 ANCHORS)
8" MAX.
EXTERIOR
CENTERLINE OF PANEL 3
"J" ANCHORAGE
CENTERLINE OF PANEL 4
"J" ANCHORAGE
CENTERLINE OF PANEL 5
SEE SHEET 10 FOR OTHER INTERMEDIATE ANCHORS
3 TRACK FRAME JAMB ANCHOR PAIR
PGT
ALUMINUM SLIDING GLASS WINDOWS
EXAMPLE SPACING & EXAMPLE
SHEET 8 OF 11
SEE SHEET INDEX



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



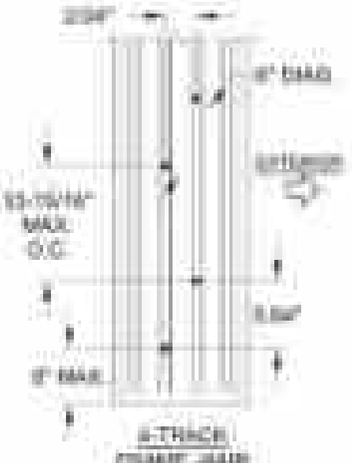
2-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 3 CLUSTER ANCHORS ARE REQUIRED "C3")



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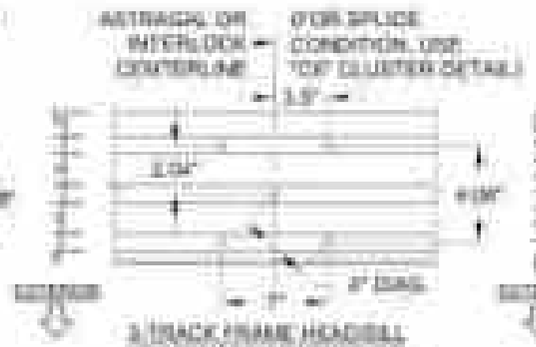


2-TRACK FRAME JAMB ANCHOR PAIR



4-TRACK FRAME JAMB ANCHOR PAIR



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")



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

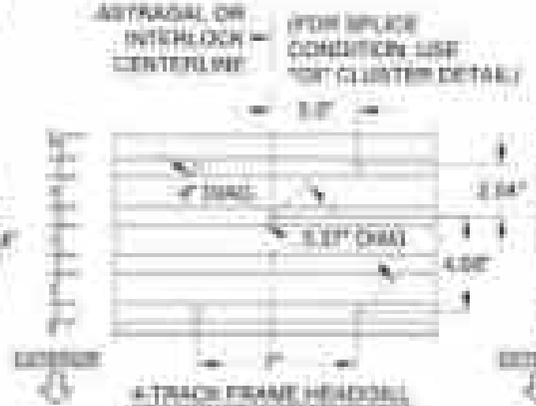


3-TRACK FRAME JAMB ANCHOR PAIR
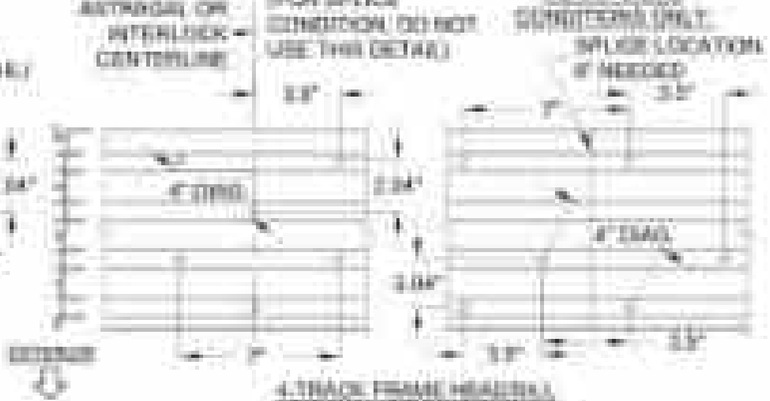
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. FOR HEAD OR SILL SPLICE LOCATION/ANCHORAGE AT P-HOOK SEE SHEET 8.



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

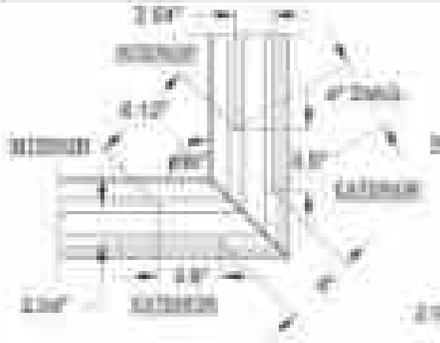


4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 3 CLUSTER ANCHORS ARE REQUIRED "C3")

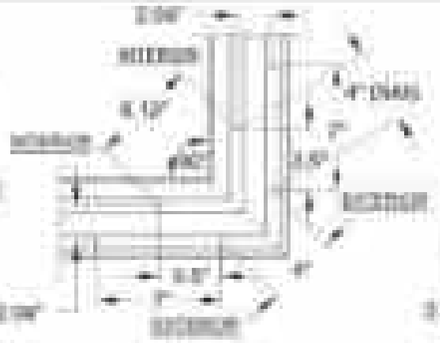


4-TRACK FRAME HEAD/SILL @ ASTRAGAL OR INTERLOCK (USE WHERE 2 CLUSTER ANCHORS ARE REQUIRED, "C2") WITH & WITHOUT SPLICE CONDITION

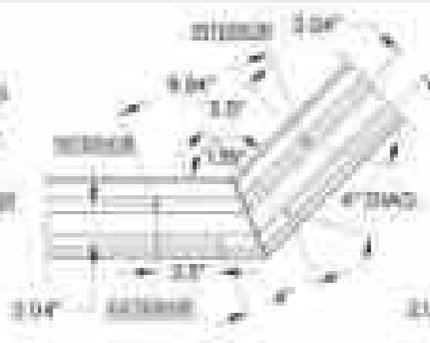
PGT
ALUMINUM SLIDING GLASS WINDOW
ANCHORAGE CLUSTERS
ID1910



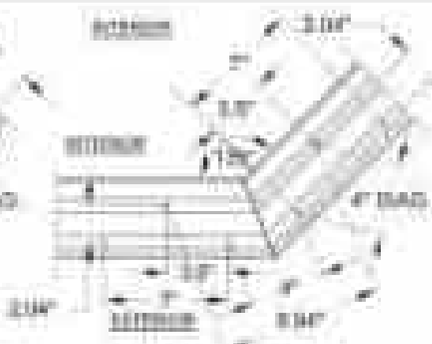
90° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER
ANCHORS ARE REQUIRED "C4")



90° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 3 OR 4 CLUSTER
ANCHORS ARE REQUIRED "C3")



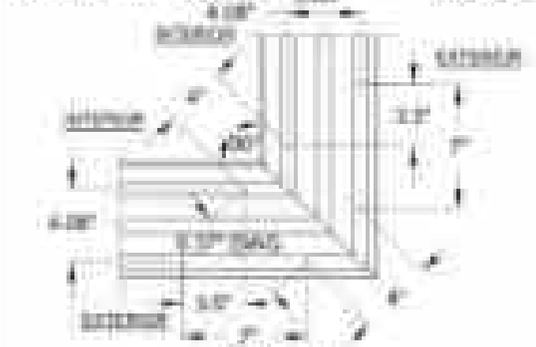
135° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 4 CLUSTER
ANCHORS ARE REQUIRED "C4")



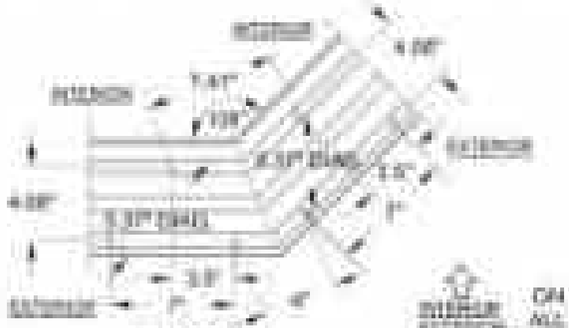
135° CORNER
3-TRACK FRAME HEAD/SILL
(USE WHERE 3 OR 4 CLUSTER
ANCHORS ARE REQUIRED "C3")







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)

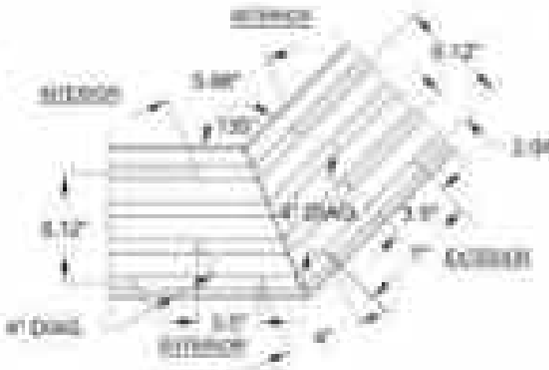


4-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT
(3-TRACK SIMILAR)



2-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT

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

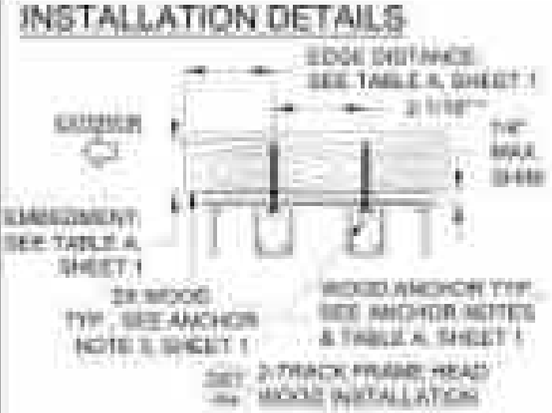


135° CORNER
4-TRACK FRAME HEAD/SILL
("C6" ANCHOR CLUSTER REQUIRED
AT ALL 4-TRACK CORNERS)

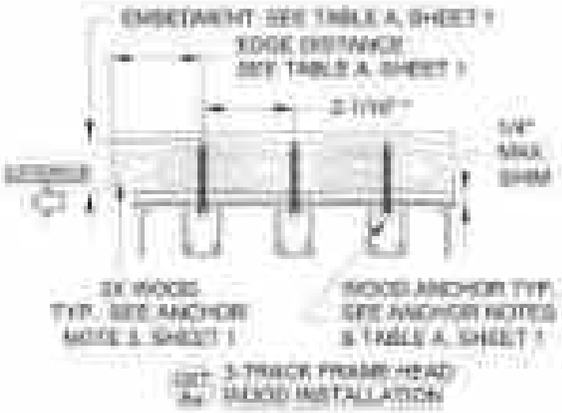
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2. DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE IDENTICAL FOR EXTERIOR OR INTERIOR CORNER CONFIGURATIONS.

PGT
ALUMINUM SLIDING GLASS WINDOW
ANCHORAGE - CLUSTERS
ID1015

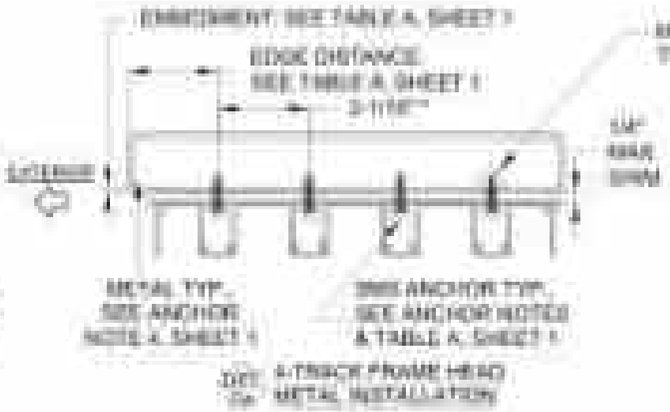
INSTALLATION DETAILS



(SC) 2-TRACK FRAME HEAD
(W) WOOD INSTALLATION



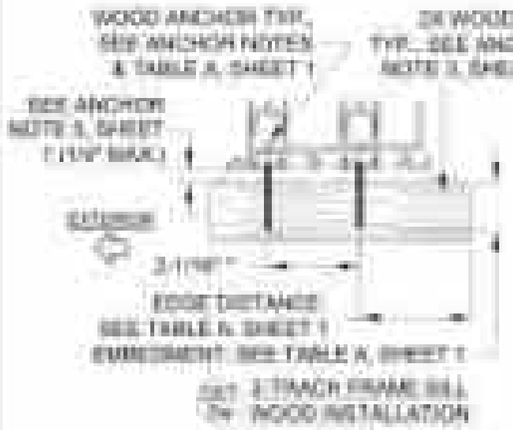
(SC) 3-TRACK FRAME HEAD
(W) WOOD INSTALLATION



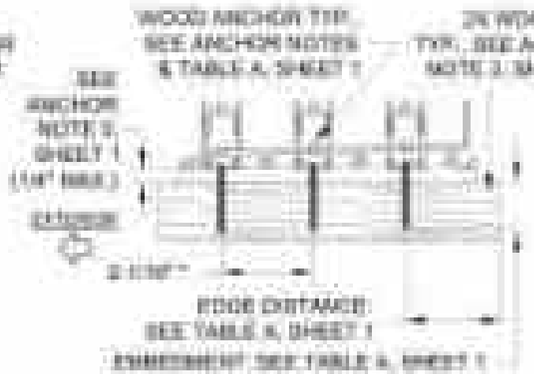
(SC) 4-TRACK FRAME HEAD
(M) METAL INSTALLATION

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

* DIAGONAL D.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS, SHEETS 9 & 10.



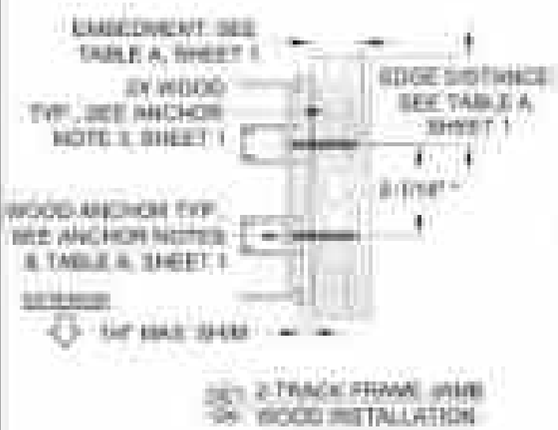
(SC) 2-TRACK FRAME SILL
(W) WOOD INSTALLATION



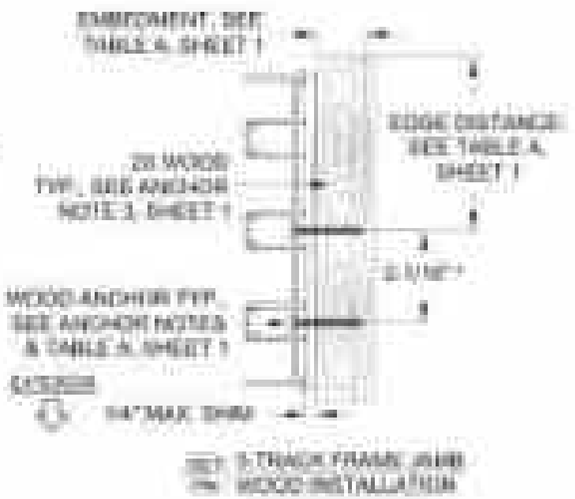
(SC) 3-TRACK FRAME SILL
(W) WOOD INSTALLATION



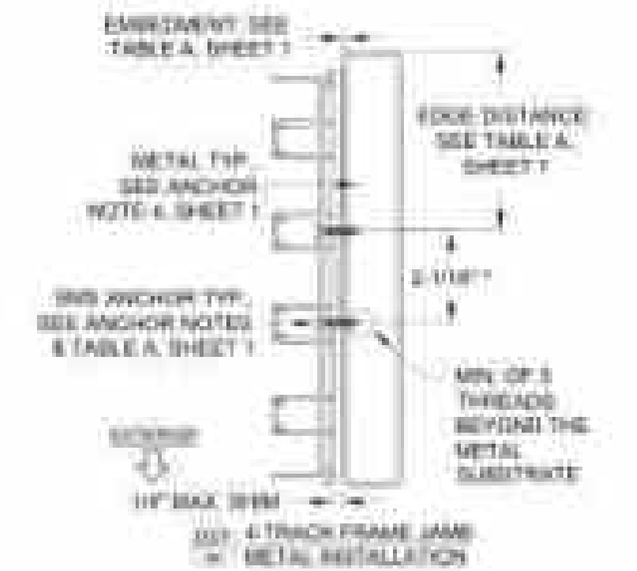
(SC) 4-TRACK FRAME SILL
(M) METAL INSTALLATION



(SC) 2-TRACK FRAME JAMB
(W) WOOD INSTALLATION



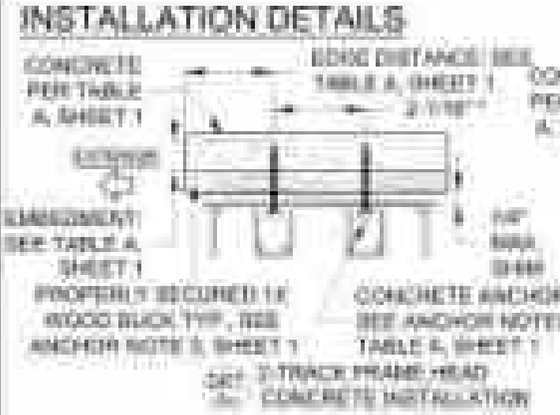
(SC) 3-TRACK FRAME JAMB
(W) WOOD INSTALLATION



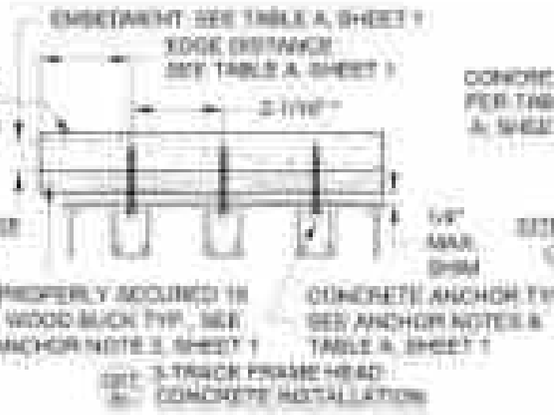
(SC) 4-TRACK FRAME JAMB
(M) METAL INSTALLATION

PGT
ALUMINUM IMPACT GUARD WINDOW
ANCHORAGE DETAILS
IDS

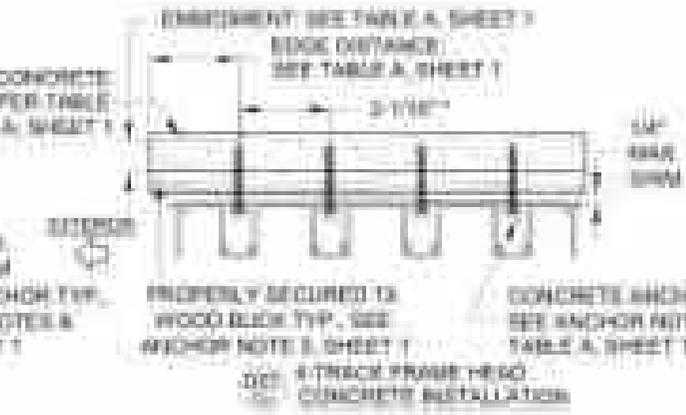
INSTALLATION DETAILS



SEE 2-TRACK FRAME HEAD CONCRETE INSTALLATION

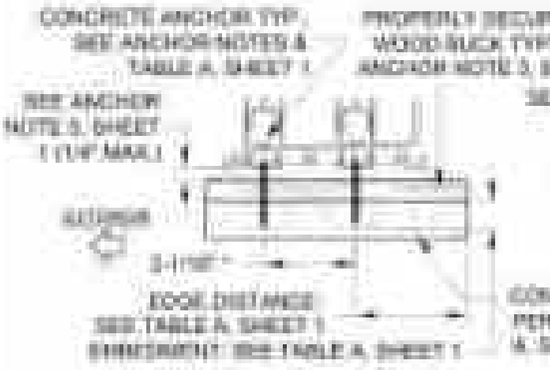


SEE 3-TRACK FRAME HEAD CONCRETE INSTALLATION

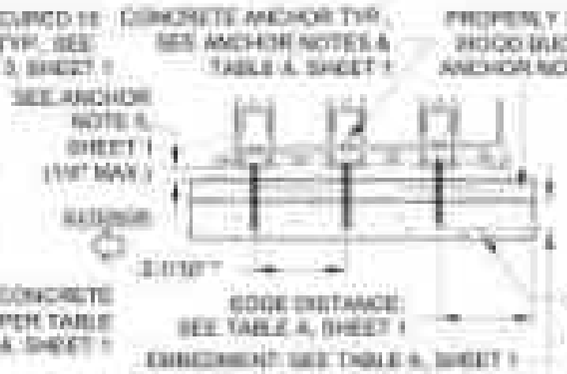


SEE 4-TRACK FRAME HEAD CONCRETE INSTALLATION

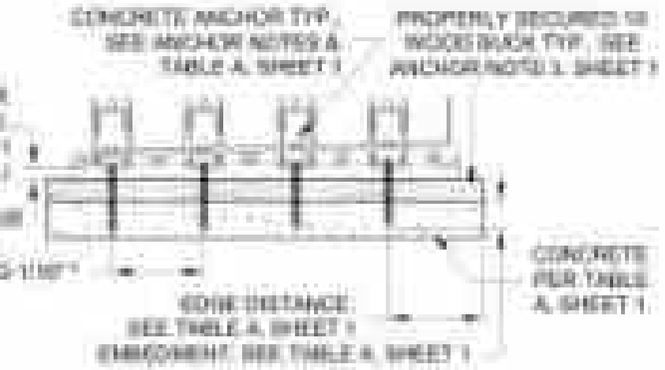
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
* DIAGONAL O.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS SHEETS 8 & 10



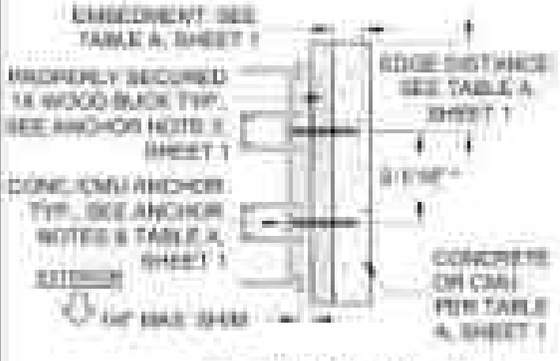
SEE 2-TRACK FRAME SILL CONCRETE INSTALLATION



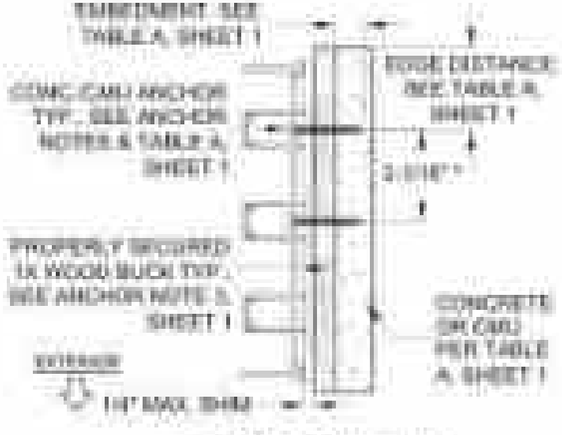
SEE 3-TRACK FRAME SILL CONCRETE INSTALLATION



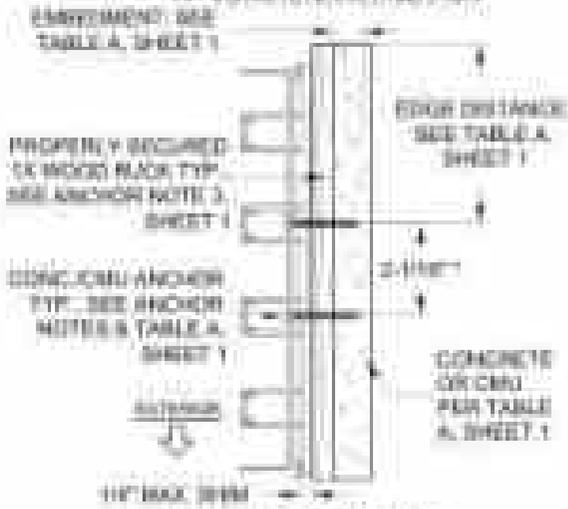
SEE 4-TRACK FRAME SILL CONCRETE INSTALLATION



SEE 2-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



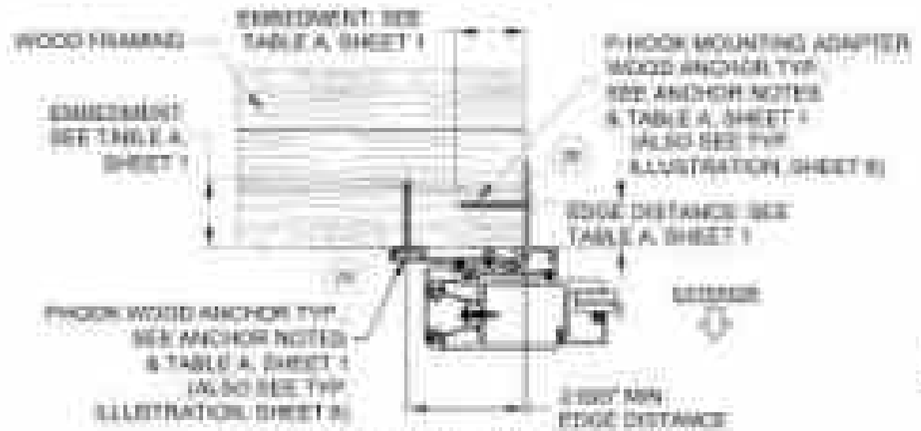
SEE 3-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



SEE 4-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION

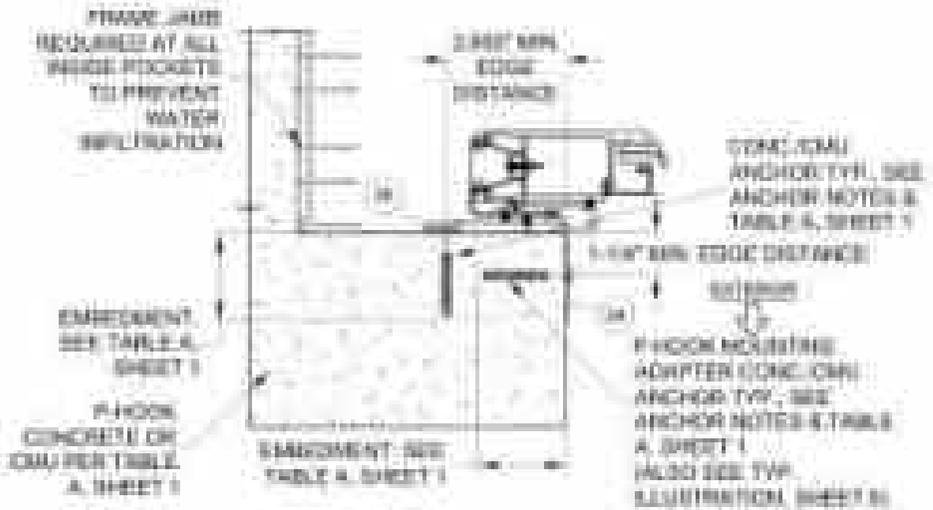
PGT
ALUMINUM SLIDING GLASS WINDOW
ANCHORAGE DETAILS

INSTALLATION DETAILS



(2X) P-HOOK FOR USE WITH FLAT SILL RISERS
PARTS #18, #20, #22 OR #24
WOOD INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN INTERIOR CONDITION



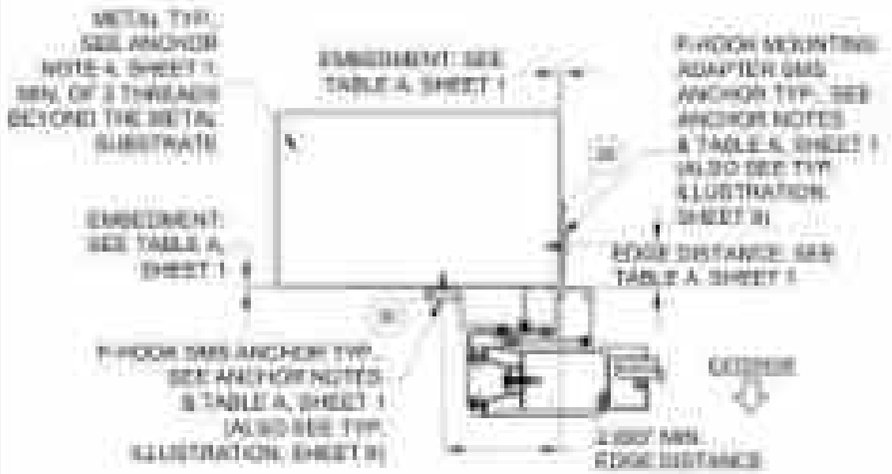
(2X) P-HOOK FOR USE WITH ANY SILL RISER
PARTS #18, #20, #22 OR #24
CONCRETE/CMU INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

INTERIOR MOUNT SHOWN, MAY ALSO BE INSTALLED IN EXTERIOR CONDITION

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

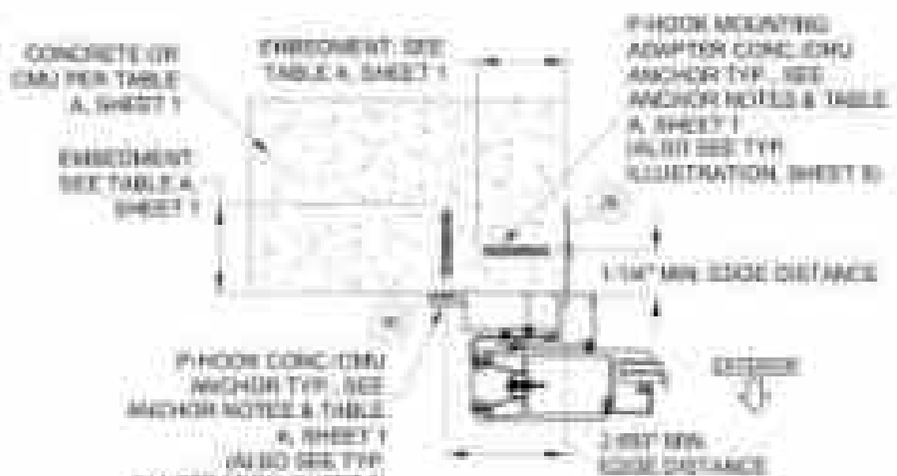
2. FIGURES ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE TABLE A, SHEET 1 FOR ALL APPROVED SUBSTRATES.

3. SEE TABLES 1-3, SHEETS 5-7 FOR REQUIRED P-HOOK AND P-HOOK MOUNTING ADAPTER ANCHOR QUANTITIES. ALSO SEE EXAMPLE ON SHEET 5.



(2X) P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25
METAL INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT ONLY



(2X) P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25
CONCRETE INSTALLATION
(SEE TABLES 1A, 2A & 3A FOR WATER RATINGS)

EXTERIOR MOUNT ONLY

PGT
ALUMINUM IMPACT WINDOWS AND DOORS
ANCHORAGE DETAILS

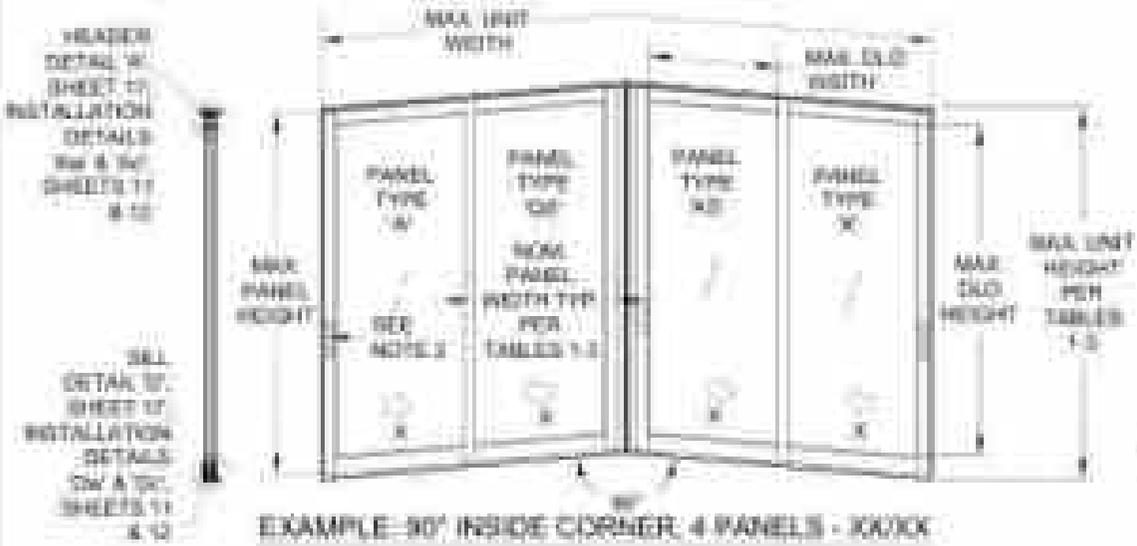
CONFIG. EXAMPLES

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.

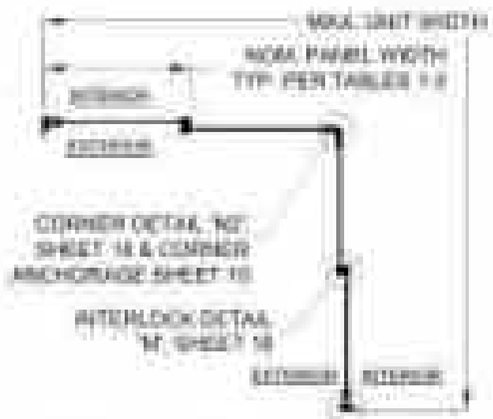


EXAMPLE: HEADER BLOCK PLACEMENT IN 3-PANEL CONFIGURATION. OTHERS SIMILAR





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





FRAME CORNER DETAIL



PANEL CORNER DETAIL

NOTES:
1) SEE SHEET 16 FOR INDIVIDUAL PANEL CONFIGURATIONS AS APPLICABLE. SEE DP ANCHOR TABLES, SHEETS 5-7 FOR MAX. PANEL HEIGHT AND WIDTH. SEE SHEETS 17 & 18 FOR SECTION DETAILS AND SHEETS 11-13 FOR INSTALLATION DETAILS.
2) (1) LOCK ITEMS 75 & 107-110 AT EACH LOCKSTILE, LOCKING INTO ADJACENT PANEL OR FRAME JAMB OR MEETRAIL.
3) PLEASE SEE APPLICABLE REINFORCEMENT PER DP ANCHOR TABLES.

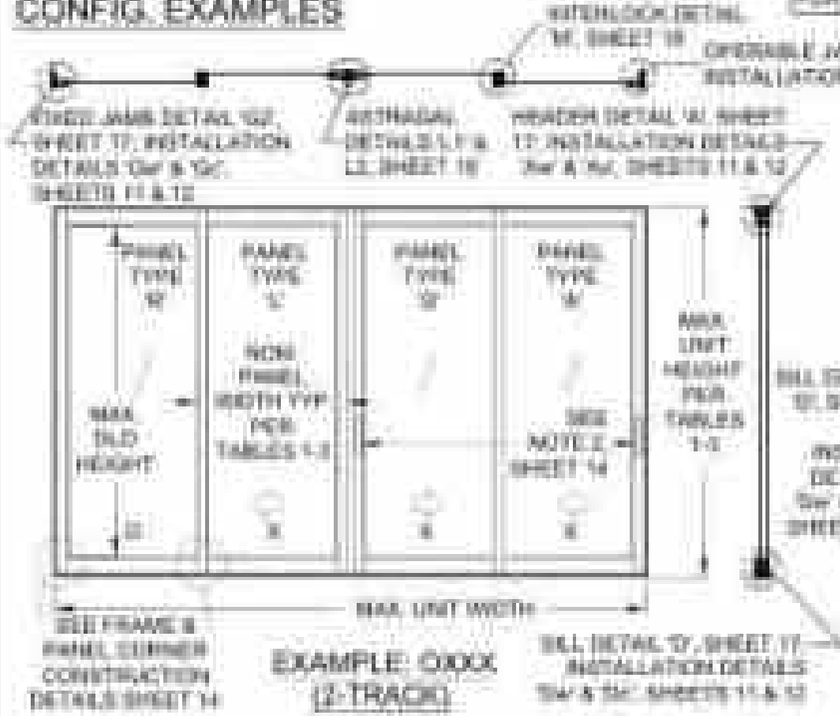
GLASS WIDTH = NOMINAL PANEL WIDTH - 3.25"
O.I.D. WIDTH = NOM. PANEL WIDTH - 4.75"
O.I.D. HEIGHT = WINDOW UNIT HEIGHT - 10.125"
PANEL HEIGHT = WINDOW UNIT HEIGHT - 1.969"

PGT
ALUMINUM SLIDING GLASS WINDOWS
EXAMPLE ELEVATION
DRAWING NO.
SHEET NO. 14 OF 17

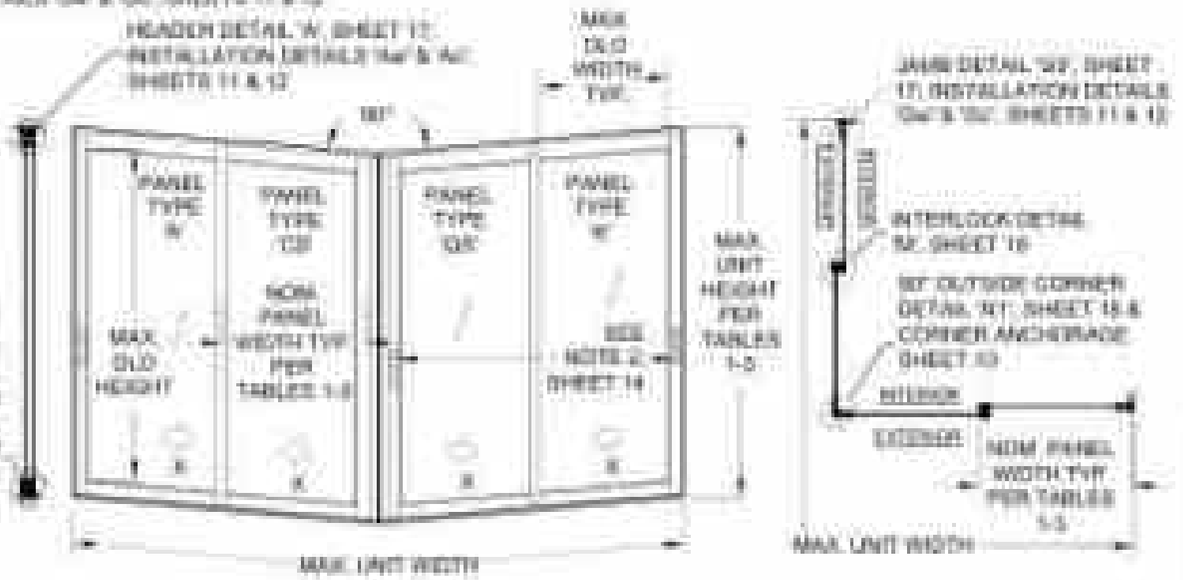
REGISTERED ARCHITECT
PROFESSIONAL ENGINEER

CONFIG. EXAMPLES

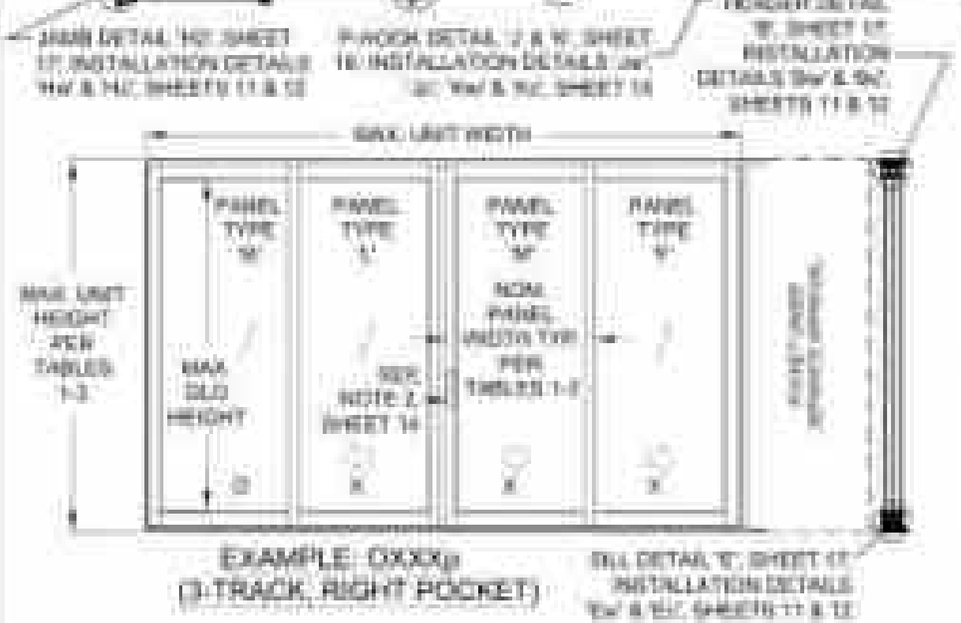
FOR ALL DETAILS ON THIS SHEET, SEE NOTES ON SHEET 14



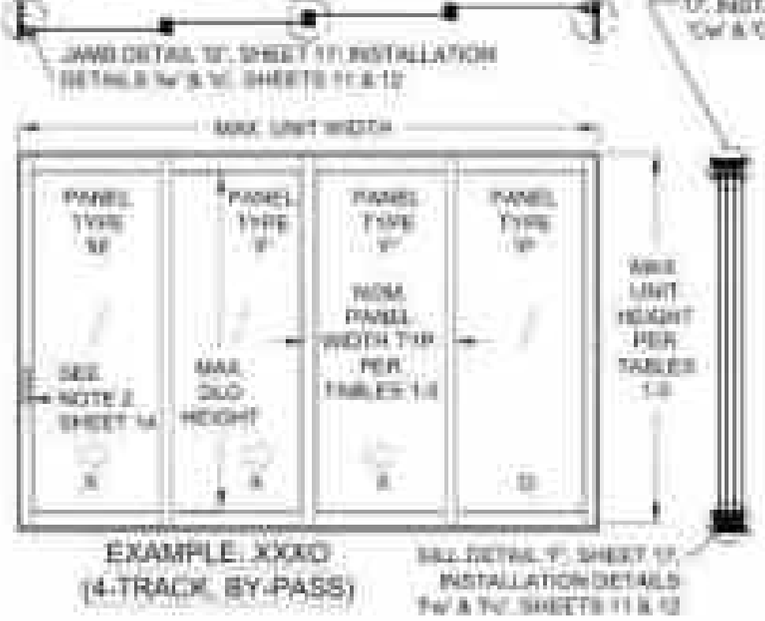
EXAMPLE: OXXX (2-TRACK)



EXAMPLE: 90° OUTSIDE CORNER - XX/XX (2-TRACK)



EXAMPLE: OXXXp (3-TRACK, RIGHT POCKET)



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

PGT INDUSTRIES

ALUMINUM SLIDING GLASS WINDOWS

EXAMPLE ELEVATION

DRAWING NO. 12-SGW-1

SHEET NO. 15 OF 18

REVISIONS

DATE

DESCRIPTION

PROFESSIONAL ENGINEER

STATE OF FLORIDA

PANEL'S LEFT STILE TYPE \ PANEL'S RIGHT STILE TYPE	SINGLE INTERLOCK (I)	SINGLE INTERLOCK (I)	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	ASTRAGAL BOX OUT W/ HANDLE	ASTRAGAL BOX IN W/ HANDLE	LEFT CORNER W/ RECEIVER W/ HANDLE	RIGHT CORNER W/ RECEIVER W/ HANDLE	LEFT CORNER W/ RECEIVER	LEFT CORNER (NOT SHOWN) W/ RECEIVER W/ HANDLE	RIGHT CORNER (NOT SHOWN) W/ RECEIVER W/ HANDLE
SINGLE INTERLOCK (I)		F	PP	K			L		TC	TA		TV	TW
SINGLE INTERLOCK (I)	B	E	P	A			C	C	SC	SA		SV	SW
FIXED STILE	RR	R			S	S				FD	FC	FV	FW
LOCKSTILE 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									
LEFT CORNER W/ RECEIVER W/ HANDLE	CT	CS											
RIGHT CORNER W/ RECEIVER W/ HANDLE	AT	AS	DF										
LEFT CORNER W/ RECEIVER			CF										
LEFT CORNER (NOT SHOWN) W/ RECEIVER W/ HANDLE	VT	VS	VF										
RIGHT CORNER (NOT SHOWN) W/ RECEIVER W/ HANDLE	WT	WS	WF										

PANEL NOTES:

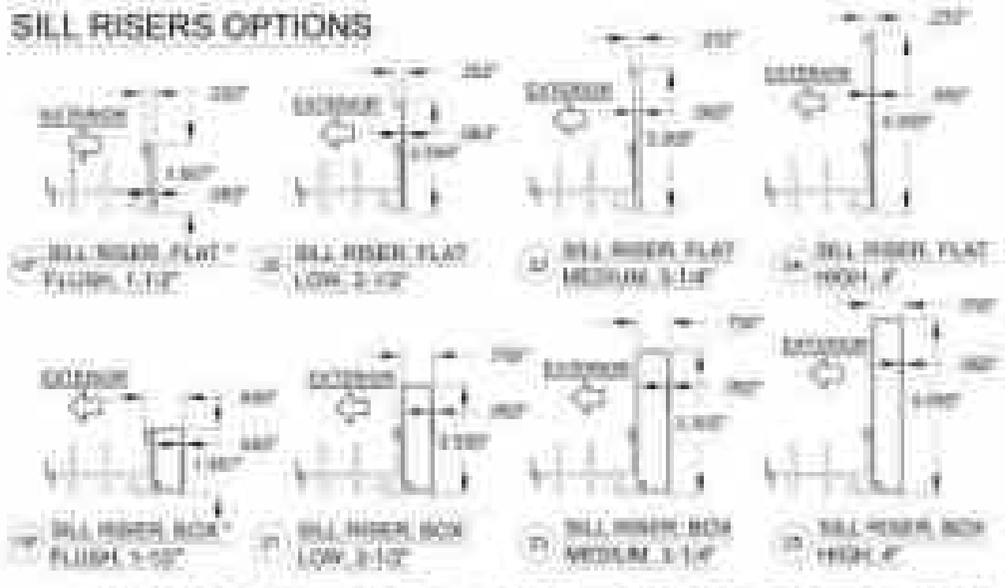
1. SEE DP TABLES 1-5, SHEETS 5-7 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN OR CROSSED OFF ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. 90° ASTRAGALS TO USE HEAVY-DUTY STILES (#61), CORNER RECEIVER (#116) AND EITHER EXTERIOR (#118) OR INTERIOR (#126) CORNER ASTRAGALS.
4. 135° ASTRAGALS TO USE HEAVY-DUTY STILES (#61) AND CORNER ADAPTER (#31).

EXAMPLE



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

SILL RISERS OPTIONS



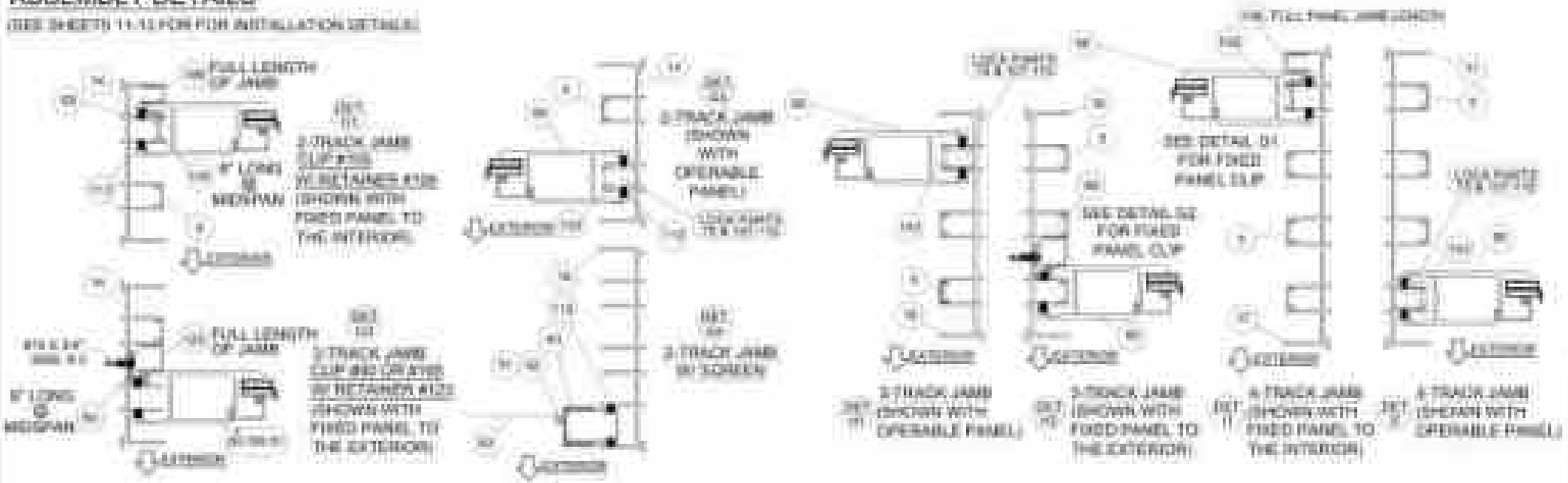
1 SILL RISER, FLAT * FLUSH, 1-1/2"
2 SILL RISER, FLAT LOW, 3-1/2"
3 SILL RISER, FLAT MEDIUM, 5-1/4"
4 SILL RISER, FLAT HIGH, 8"
5 SILL RISER, BOX * FLUSH, 1-1/2"
6 SILL RISER, BOX LOW, 3-1/2"
7 SILL RISER, BOX MEDIUM, 5-1/4"
8 SILL RISER, BOX HIGH, 8"

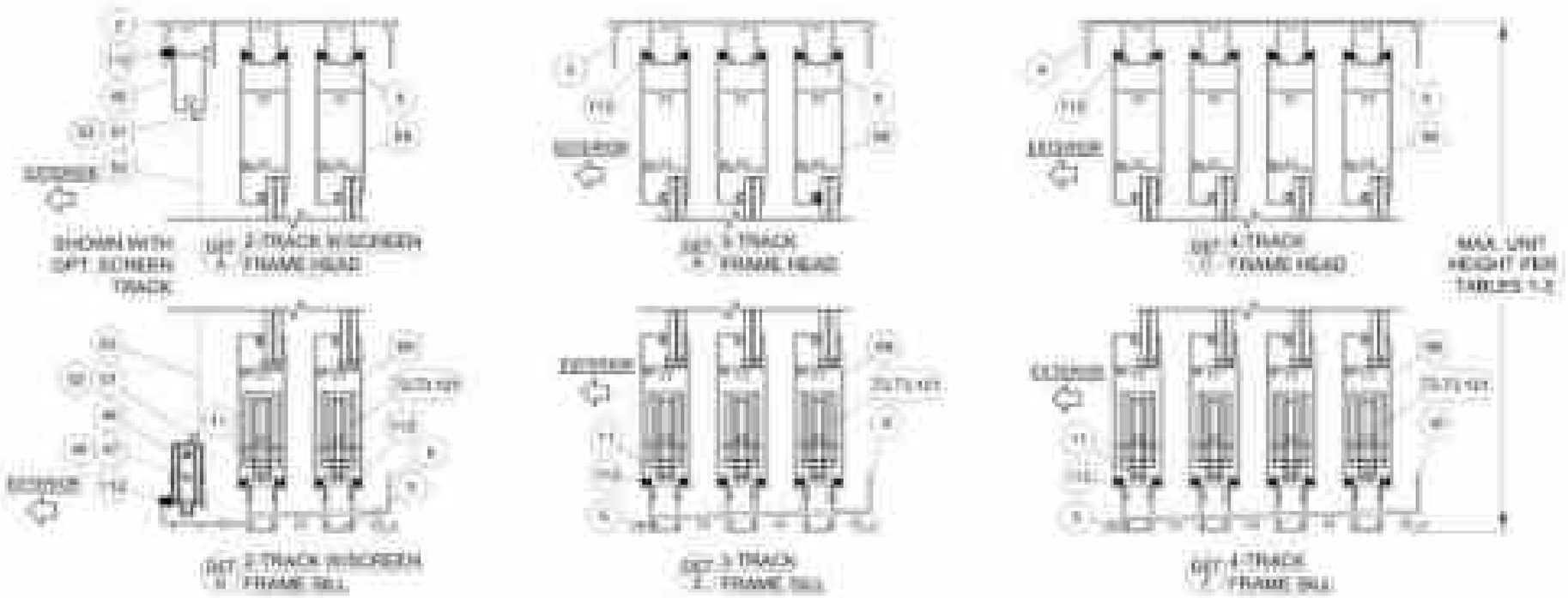
* NOT VALID FOR WATER INFILTRATION RESISTANCE REQUIREMENTS. SEE SHEETS 5-7

PGT INDUSTRIES
ALUMINUM SLIDING GLASS WINDOW
PANEL TYPES
IDS-ROOM-SW
DP 15 PG 30

ASSEMBLY DETAILS

(SEE SHEETS 11-13 FOR FOR INSTALLATION DETAILS)





PGT

ALUMINUM SLIDING GLASS WINDOW

VERTICAL SECTION DETAILS

ID 5101

11 OF 11

SHEETS

ANTHONY TYRON MILLER
LICENSE
No. 68000
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ASSEMBLY DETAILS

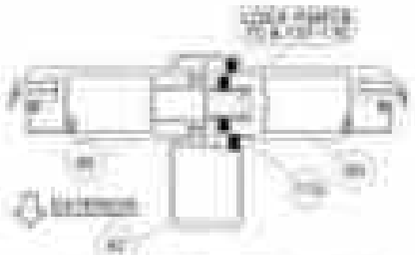
(SEE SHEETS 11-13 FOR FOR INSTALLATION DETAILS)



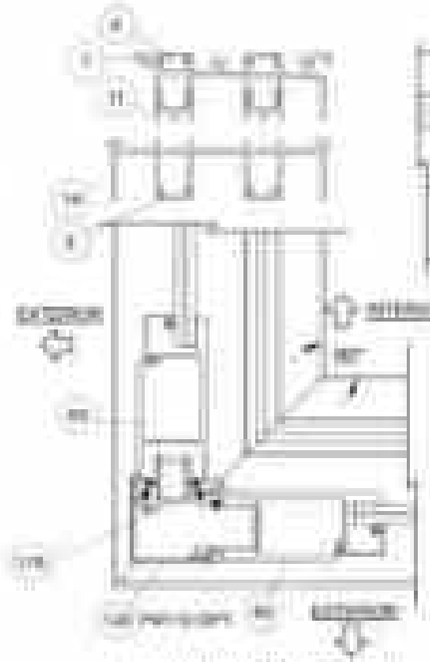
DET. 1 — P-HOOK FOR FLAT SILLS (EXT. OR INT. MOUNT)



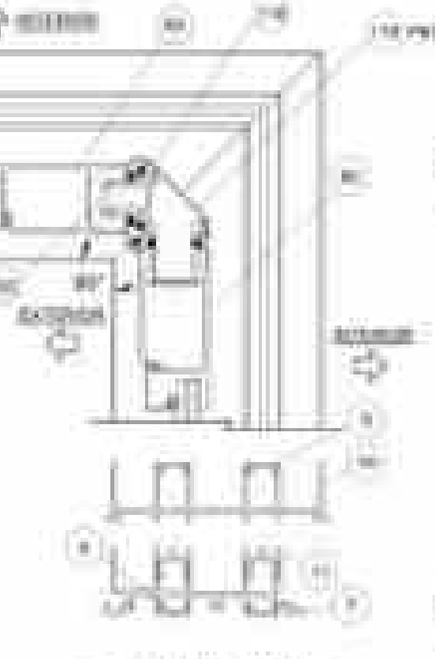
DET. 2 — P-HOOK FOR BOX SILLS (EXT. MOUNT ONLY)



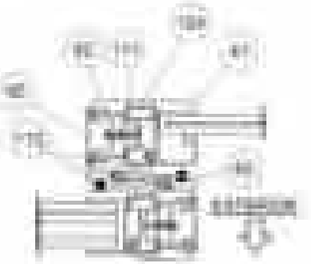
DET. 3 — STANDARD ASTRAGAL MT. W/ WITH STANDARD STILES (NS) EXTERIOR BOX ASTRAGAL SHOWN (BOX-OUT) MAY ALSO BE INSTALLED TOWARDS INTERIOR (BOX-IN)



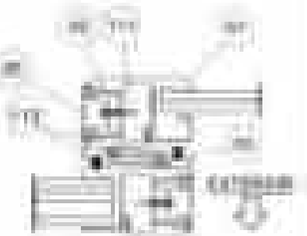
DET. 90° OUTSIDE CORNER W/ 2 TRACK SHOWN



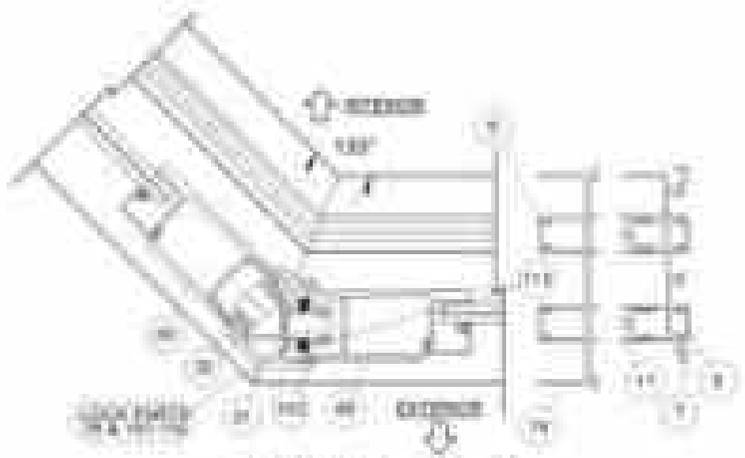
DET. 90° INSIDE CORNER W/ 2-TRACK SHOWN



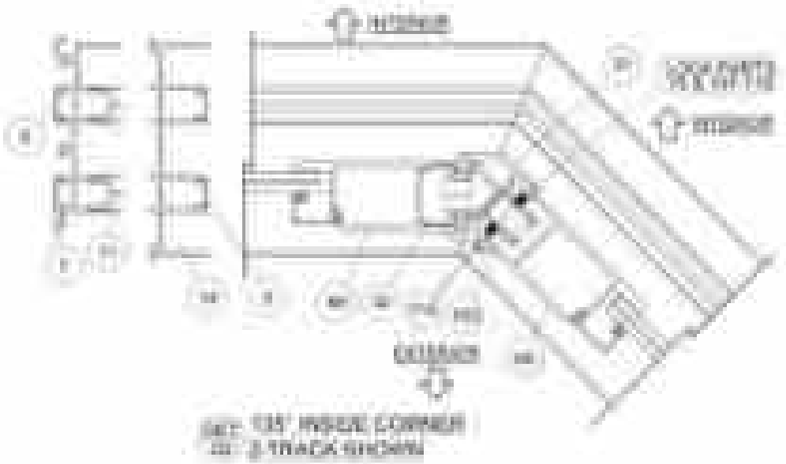
DET. REINFORCED W/ SITELOOK



DET. SITELOOK



DET. 135° OUTSIDE CORNER W/ 2-TRACK SHOWN



DET. 135° INSIDE CORNER W/ 2-TRACK SHOWN

PGT

ALUMINUM SLIDING GLASS WINDOW

HORIZONTAL SECTION DETAILS

REVISIONS

DATE

SCALE

DRAWN BY

CHECKED BY

PROJECT NO.

SHEET NO.

REGISTERED PROFESSIONAL ENGINEER

Item	PGT Dwg. #	PGT #	Description
1	[illegible]	[illegible]	2-TRACK HEAD
2	[illegible]	[illegible]	3-TRACK HEAD WITH ACTIVATING BAR
3	[illegible]	[illegible]	3-TRACK HEAD
4	[illegible]	[illegible]	4-TRACK HEAD
5	[illegible]	[illegible]	FRAME ACCESSORY SCREEN
6	[illegible]	[illegible]	FRAME HEAD/JAMB ADAPTOR
7	[illegible]	[illegible]	2-TRACK SILL
8	[illegible]	[illegible]	3-TRACK SILL WITH SCREEN [illegible]
9	[illegible]	[illegible]	4-TRACK SILL
10	[illegible]	[illegible]	3-TRACK SILL
11	[illegible]	[illegible]	FRAME SILL TRACK INSERT
12	[illegible]	[illegible]	FRAME SILL SCREEN [illegible] SEE NOTE 2
13	[illegible]	[illegible]	FRAME SILL SCREEN [illegible] SEE NOTE 2
14	[illegible]	[illegible]	3-TRACK JAMB
15	[illegible]	[illegible]	3-TRACK JAMB W/ SCREEN [illegible]
16	[illegible]	[illegible]	2-TRACK JAMB
17	[illegible]	[illegible]	4-TRACK JAMB
18	[illegible]	[illegible]	SILL RISER [illegible]
19	[illegible]	[illegible]	SILL RISER [illegible]
20	[illegible]	[illegible]	SILL RISER [illegible]
21	[illegible]	[illegible]	SILL RISER [illegible]
22	[illegible]	[illegible]	SILL RISER [illegible]
23	[illegible]	[illegible]	SILL RISER [illegible]
24	[illegible]	[illegible]	SILL RISER [illegible]
25	[illegible]	[illegible]	SILL RISER [illegible]
26	[illegible]	[illegible]	POCKET [illegible]
27	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	POCKET [illegible]
29	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	POCKET [illegible]
31	[illegible]	[illegible]	90 CORNER
32	[illegible]	[illegible]	135 [illegible]
			OPTIONAL [illegible]
40	[illegible]	[illegible]	SCREEN [illegible]
41		[illegible]	SCREEN [illegible]
42		[illegible]	[illegible]
43	[illegible]	[illegible]	SCREEN [illegible] ADAPTER
44	[illegible]	[illegible]	SCREEN [illegible] INTERLOCK
45	[illegible]	[illegible]	SCREEN TOP RAIL
46	[illegible]	[illegible]	SCREEN BOTTOM RAIL

NOTES:

1) ALL ALUMINUM 6063-T6.

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

Item	PGT Dwg. #	PGT #	Description
47	[illegible]	[illegible]	STANDARD ROLLER
48	[illegible]	[illegible]	STANDARD ROLLER - ST. STL.
49	[illegible]	[illegible]	SCREEN EXTRUSION
50	[illegible]	[illegible]	[illegible] SCREEN [illegible] ADAPTER
51	[illegible]	[illegible]	SCREEN SPLINE - [illegible]
52	[illegible]	[illegible]	SCREEN SPLINE - [illegible]
53		[illegible]	SCREEN CLOTH
54	[illegible]		[illegible] SET. BLOCK, NEOPRENE [illegible]
55	[illegible]		[illegible] SET. BLOCK, NEOPRENE [illegible]
60	[illegible]	[illegible]	PANEL STILE
61	[illegible]	[illegible]	PANEL NARROW STILE
62	[illegible]	[illegible]	INTERLOCK ADAPTOR
63	[illegible]	[illegible]	VINYL BULB [illegible] INTERLOCK
64	[illegible]	[illegible]	SILL END WEATHERSTRIP PAD
65	[illegible]	[illegible]	INTERLOCK SCREW COVER
66	[illegible]	[illegible]	ASTRAGAL
67	[illegible]	[illegible]	HEAVY DUTY ASTRAGAL
68	[illegible]	[illegible]	TOP & BOTTOM RAIL
70	[illegible]	[illegible]	WEATHERSTRIP [illegible]
71	[illegible]	[illegible]	[illegible]
72	[illegible]	[illegible]	TANDEM ST. STL. ROLLER ASSY
73	[illegible]	[illegible]	TANDEM [illegible] ROLLER ASSY
74		[illegible]	[illegible]
75	[illegible]	[illegible]	[illegible]
76		[illegible]	[illegible]
77		[illegible]	[illegible]
78	[illegible]	[illegible]	[illegible]
80	[illegible]	[illegible]	[illegible] FIXED PANEL CLIP
81	[illegible]	[illegible]	[illegible]
82	[illegible]	[illegible]	VINYL BULB WEATHERSTRIP
83	[illegible]	[illegible]	[illegible]
100	[illegible]	[illegible]	ROLLER ADJ. HOLE PLUG
101		[illegible]	JAMB BUMPER
102	[illegible]	[illegible]	DUST PLUG
103	[illegible]	[illegible]	[illegible]
104	[illegible]	[illegible]	SCREEN LOCK ADAPTER
105	[illegible]	[illegible]	FIXED PANEL CLIP, 3" LONG
106	[illegible]	[illegible]	FIXED PANEL RETAINER [illegible]
107	[illegible]	[illegible]	HANDLE KIT - INTERIOR [illegible] WITH THUMB TURN
108	[illegible]	[illegible]	HANDLE KIT - RAISED EXTERIOR HANDLE
109	[illegible]	[illegible]	HANDLE KIT - RECESSED INTERIOR WITH THUMB TURN
110	[illegible]	[illegible]	HANDLE KIT - RECESSED EXTERIOR PULL
111		[illegible]	[illegible]
112	[illegible]	[illegible]	[illegible]
113	[illegible]	[illegible]	[illegible]
114		[illegible]	[illegible]
115		[illegible]	[illegible]
116		[illegible]	[illegible]
117		[illegible]	[illegible]
118		[illegible]	90 DEGREE BEVELED CORNER COVER
120		[illegible]	90 DEGREE SQUARE CORNER COVER
121	[illegible]	[illegible]	FIXED PANEL ADJUSTER
122		[illegible]	FIXED PANEL BRACKET [illegible]

PGT

ALUMINUM SLIDING GLASS WINDOW

BILL OF MATERIALS

ANTHONY LYNN MILLER
STATE OF FLORIDA
PROFESSIONAL ENGINEER

1 2-TRACK HEAD
(6063-T6 AL)

4 4-TRACK SILL
(6063-T6 AL)

7 3-TRACK JAMB W/
SCREEN TRACK
(6063-T6 AL)

14 SCREEN
STILE
(6063-T6 AL)

2 2-TRACK HEAD W/ SCREEN TRACK
(6063-T6 AL)

5 3-TRACK SILL
(6063-T6 AL)

12 2-TRACK JAMB
(6063-T6 AL)

3 3-TRACK HEAD
(6063-T6 AL)

6 2-TRACK SILL W/ SCREEN TRACK
(6063-T6 AL)

15 SCREEN
TOP RAIL
(6063-T6 AL)

8 4-TRACK HEAD
(6063-T6 AL)

9 3-TRACK SILL
(6063-T6 AL)

10 FRAME HEAD/JAMB SCREEN
ADD-ON
(6063-T6 AL)

11 FRAME SILL SCREEN
ADD-ON
(6063-T6 AL)

13 FRAME SILL SCREEN
END ADD-ON
(6063-T6 AL)

16 3-TRACK JAMB
(6063-T6 AL)

17 4-TRACK JAMB

18 SCREEN
BOTTOM RAIL
(6063-T6 AL)

PGT
ALUMINUM IMPACT GLASS WINDOW SYSTEMS
EXTRUSIONS

ENGINEERING

(4) FRAME SCREEN COVER (6063-T6 AL)

(11) SILL TRACK (6063-T6 AL)

(24) P-HOOK (6063-T6 AL)

(34) P-HOOK MOUNTING ADAPTER (6063-T6 AL)

(35) P-HOOK SCREW COVER (6063-T6 AL)

(41) P-HOOK FOR BOX RIDGE (6063-T6 AL)

(1) 135° CORNER (6063-T6 AL)

(2) 135° FIXED MOUNT (6063-T6 AL)

(6) STILE (6063-T6 AL)

(7) NARROW STILE (6063-T6 AL)

(12) NARROW INTERLOCK ADAPTER (6063-T6 AL)

(13) INTERLOCK SCREW COVER (6063-T6 AL)

(17) STANDARD MATING (6063-T6 AL)

(18) NARROW INTERLOCK REAR ONSCREW (6063-T6 AL)

(19) TOP/BOTTOM RAIL (6063-T6 AL)

(20) GLAZING BEAD (I.G.) (6063-T6 AL)

(21) 7/16" GLAZING BEAD FIXED PANEL CLIP (6063-T6 AL)

(22) 9/16" GLAZING BEAD (6063-T6 AL)

(23) FIXED PANEL CLIP (6063-T6 AL)

(24) FIXED PANEL RETAINER, 5/16" (6063-T6 AL)

(25) FIXED PANEL RETAINER, 7/16" (6063-T6 AL)

(116) 90° CORNER ADAPTER

(117) 90° BEVELED CORNER COVER (6063-T6 AL)

(118) 90° SQUARE CORNER COVER (6063-T6 AL)

(121) INTERLOCK AT P-HOOK (6063-T6 AL)

PGT WINDOWS AND DOORS

ALUMINUM SLIDING GLASS WINDOW

EXTRUSIONS

ID 5/16/18

WESLEY LYNN GILLIS

No. 38705

STATE OF FLORIDA

PROFESSIONAL ENGINEER