Engineering Evaluation Report #5570NS-W-08132026

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

Product Description:
SGD5570NS-W Series Impact-resistant Vinyl 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 SGD5570W-LM-HVHZ-NS, signed and sealed by A. Lynn Miller, P.E.

2. Test Report Nos.:
QAI NOK-0072, QAI NOK-0075, QAI NOK-0080, QAI NOK-0090 and QAI NOK-0092 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 2/29/24., 6/13/24

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 and Vinyl.
- Units must be installed in accordance with approval documents.



SERIES SGD/SDTDNS IV
VINYL, 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) MULLIONS ARE NOT REQUIRED WHEN USED IN WIND BORNE DEBRIS REGIONS FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CWFM) MUST TEMPERED.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED IN INSTALLATIONS. IN 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 CRACKING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL WEATHER FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) MIN. 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/CYCLIC TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/CYCLIC 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 LOADS/LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE (MAY NOT BE/IS USED) IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR (MAY BE 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 EXPOSED REQUIREMENTS.

9) IF SILL IS TILT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3KSI PSI MIN. (SOME JOT OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TILT 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 #13547

TABLE A

Group	Anchor	Substrate	Frame Member	Min. Edge Distance	Min. Embedment
A	#12 SMS Screw through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Wood (SG=0.55)	Min. 0.062" thick Mill Finish Aluminum	3/4"	1"
		Minimum 2" thick Wood (SG=0.42)		1"	1"
		Minimum 2" thick Wood (SG=0.37)		1 1/4"	1"
	1/4" Wood Screw through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Wood (SG=0.55)	Min. 0.062" thick Mill Finish Aluminum	3/4"	1"
	1/4" x 1-1/2" Tapcon through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Concrete (f'c=2,500 psi)	Min. 0.062" thick Mill Finish Aluminum	1 1/4"	1"
B	1/4" Wood Screw through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Wood (SG=0.55)	Min. 0.062" thick Mill Finish Aluminum	3/4"	1"
		Minimum 2" thick Wood (SG=0.42)		1"	1"
		Minimum 2" thick Wood (SG=0.37)		1 1/4"	1"
	1/4" x 1-1/2" Tapcon through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Concrete (f'c=2,500 psi)	Min. 0.062" thick Mill Finish Aluminum	1 1/4"	1"
C	1/4" Wood Screw through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Wood (SG=0.55)	Min. 0.062" thick Mill Finish Aluminum	3/4"	1"
		Minimum 2" thick Wood (SG=0.42)		1"	1"
		Minimum 2" thick Wood (SG=0.37)		1 1/4"	1"
	1/4" x 1-1/2" Tapcon through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Concrete (f'c=2,500 psi)	Min. 0.062" thick Mill Finish Aluminum	1 1/4"	1"
D	1/4" Wood Screw through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Wood (SG=0.55)	Min. 0.062" thick Mill Finish Aluminum	3/4"	1"
		Minimum 2" thick Wood (SG=0.42)		1"	1"
		Minimum 2" thick Wood (SG=0.37)		1 1/4"	1"
	1/4" x 1-1/2" Tapcon through min 0.062" thick Mill Finish Aluminum Angle	Minimum 2" thick Concrete (f'c=2,500 psi)	Min. 0.062" thick Mill Finish Aluminum	1 1/4"	1"

1) MIN. 1/4" SHIMS REQUIRED AT ANCHOR LOCATIONS WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS.
2) ALL SCREWS MUST PASS THROUGH BOTH WALLS OF ALUMINUM.
3) ANCHORS SHALL BE MANUFACTURED FROM TYPE 304/316 CORROSION RESISTANT STEEL AND WITH A MIN. 5/8" EMBEDMENT INTO THE WOOD SUBSTRATE. ANCHOR LOCATIONS SHALL BE LOCATED AT THE JAMB AND/OR MULLION AT THE LOCATIONS AND/OR QUANTITY FROM OTHER GROUP SHALL BE USED FOR THAT SIZE UNIT.
4) *CONCRETE ONLY VALUES MAY BE USED FOR MASONRY SUBSTRATES.

INSTRUCTIONS:

1) KNOWING THE REQUIRED ALLOWABLE STRESS DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS WINDOW MAY BE DETERMINED FROM DESIGN PRESSURE TABLES 1 OR 2, DEPENDING ON THE GLASS REINFORCEMENT.

2) LOCATE THE SLIDING GLASS WINDOW SIZE ON THE TABLE. USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH. IF YOUR EXACT SIZE IS NOT LISTED, ROUND UP TO THE NEXT GREATER LISTED WIDTH AND/OR HEIGHT.

3) CHOOSE WHICH ANCHOR GROUP (A-D) IS MOST APPLICABLE AND REFER TO DETAILS DEFINED IN TABLE A, THIS SHEET, ALONG WITH THE CORRESPONDING SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.

4) FROM THE DESIGN PRESSURE TABLES (TABLES 1, 2 OR 3), VERIFY THAT THE DESIGN PRESSURE REQUIRED FOR THE OPENING IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.

5) INSTALL AS PER THE GUIDELINES OF THIS SHEET SET. ADDITIONALLY, SEE THE EXAMPLE ON SHEET 10.

GENERAL NOTES 1
GLAZING 2
EXAMPLE CONTENTS 3
INSTALL DETAILS 4-7
DP TABLES 8-9
EXAMPLE 10
ANCHOR 11-15
FRAME TYPES 16
CORNER DETAILS 17
EXTRUSIONS 18
PARTS LIST 19

WHERE THE PRODUCT MAY BE INSTALLED WITHIN 1 FEET OF A MULTIFAMILY DWELLING, IT MUST COMPLY WITH SECTION 1011 OF THE FBC, BUILDING OR AS OF THE FBC, RESIDENTIAL.

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SERIES SGD/SDTDNS IV VINYL IMPACT SLIDING GLASS WINDOW

GENERAL NOTES

DESIGN PRESSURE RATING: SEE TABLES 1 & 2

WATER TEST PRESSURE: VARIOUS

IMPACT RATING: LARGE MISSILE IMPACT RESISTANT

DRAWING NOT TO SCALE

REVISIONS

A COMMUNITY OF



GLASS TYPE 1



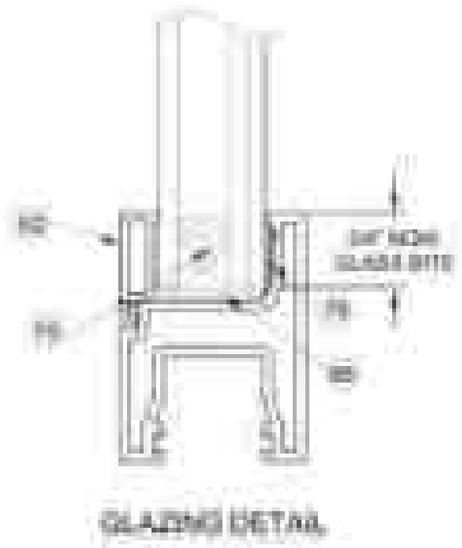
GLASS TYPE 2



GLASS TYPE 3



GLASS TYPE 4



GLAZING DETAIL

Glass Type	Description (Listed from Exterior to Interior)
1	1-1/16" Low-e : G : 3/16" TP - 0.060" AMI - 3/16" HS - 0.090" PVB - 3/16" HS
2	1-1/16" Low-e : G : 3/16" TP - 0.060" AMI - 3/16" HS - 0.090" SG - 3/16" HS
3	1-1/16" Low-e : G : 3/16" TP - 0.060" AMI : 3/16" TP - 0.090" PVB - 0.7mm ENLIGHTEN
4	1-1/16" Low-e : G : 3/16" TP - 0.060" AMI - 3/16" TP - 0.090" SG - 0.7mm ENLIGHTEN

"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = 0.090" TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.
"ENLIGHTEN" BY CORNING INC.

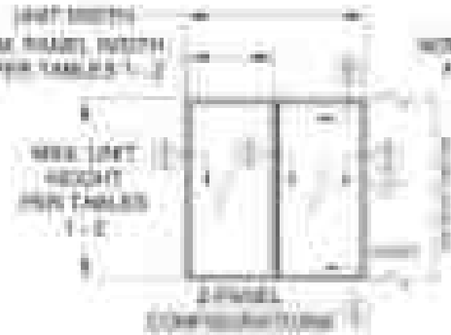
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MODERN SLIDING DOOR

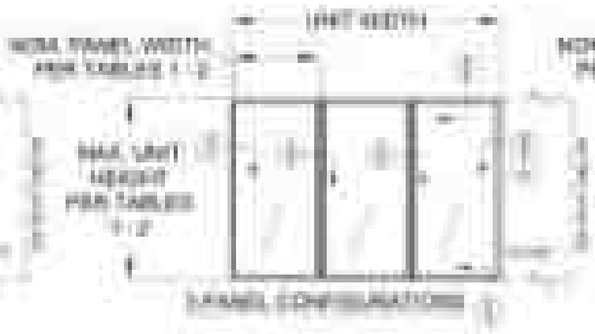
GLAZING DETAILS



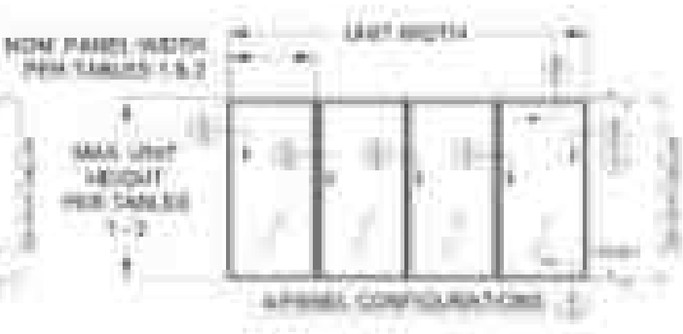
1-PANEL CONFIGURATIONS



2-PANEL CONFIGURATIONS



3-PANEL CONFIGURATIONS



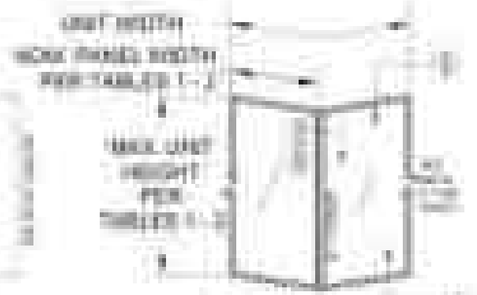
4-PANEL CONFIGURATIONS



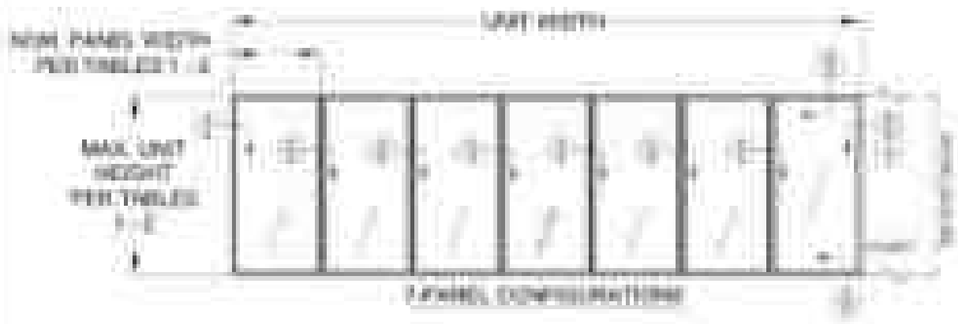
5-PANEL CONFIGURATIONS



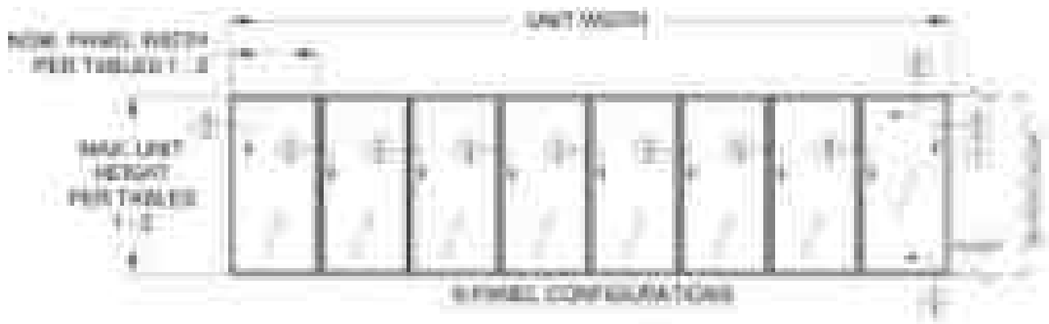
6-PANEL CONFIGURATIONS



CORNER TYP.



7-PANEL CONFIGURATIONS



8-PANEL CONFIGURATIONS

CONFIGURATIONS NOTES:
1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. EXAMPLE: A PANEL XXXX IN POCKET (2) CONFIGURATION CAN BE (XXXXO, OXXXX OR XXXXO). CHECK AS POCKET CONFIGURATION (AS BE CHECK)
2) POCKET WALL OR LIMITS IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
3) FOR NOM. PANEL WIDTH, SEE TABLES 1 - 2.

DETAIL LETTER — 'A' = OPERABLE PANEL
'D' = INOPERABLE PANEL
'P' = POCKET

SHEET NUMBER

GLASS WIDTH = NOMINAL PANEL WIDTH - 4 7/8"
GLASS WIDTH = OLD WIDTH + 1/8"
GLASS HEIGHT = DOOR UNIT HEIGHT - [illegible]
GLASS HEIGHT = GLD HEIGHT + 1/8"
PANEL HEIGHT = DOOR UNIT HEIGHT - [illegible]

PGT

EXAMPLE CONFIGURATIONS

[illegible] LICENSE

DETAIL A1

DETAIL B1

DETAIL C2

DETAIL D1

DETAIL B2

DETAIL A2

DETAIL C2

DETAIL D2

HORIZONTAL SECTION
(XXX SHOWN)

HORIZONTAL SECTION
(XO SHOWN)

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 PANEL CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 10 FOR ANCHOR LOCATION & SPACING FOR ANCHOR QUANTITIES. SEE TABLES 1 - 2.
4) CONTINUOUS ANCHOR PLATE, ITEM #6, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
6) ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
7) SEE SHEET 11 FOR SCREEN DETAILS.

DETAIL E1

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

CONCRETE/CMU PER ANCHOR REQUIREMENT

EDGE DISTANCE

EMBEDMENT

1/4" MAX.

1/4" MAX.

2X OR 2X WOOD BUCK/STRIP (IN FRAMING). SEE ANCHOR NOTE 3, SHEET 1

ANCHOR PLATE AT EVERY ANCHOR LOCATION

PANEL HEIGHT

1/4" MAX. SHIMS AS NEEDED. SEE ANCHOR NOTE 5, SHEET 1

EMBEDMENT

EDGE DISTANCE

CONCRETE/CMU PER ANCHOR REQUIREMENT

DETAIL F1

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E2

2X WOOD BUCK/STRIP (IN FRAMING). SEE ANCHOR NOTE 3, SHEET 1

EDGE DISTANCE

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

EMBEDMENT

1/4" MAX.

1/4" MAX.

HEADER RAIL AT THE PANEL LENGTH EQUAL TO THE WIDTH OF THE PANEL AND INSTALLED WITH #12X1-1/2 SMS AT 6" FROM EACH END

HEADER RAIL OUTSIDE OF THE PANEL LENGTH EQUAL TO DISTANCE BETWEEN END OF PANEL AND JAMB.

EACH SEGMENT INSTALLED WITH #12X1-1/2 SMS AND 6" FROM EACH END

PANEL HEIGHT

EMBEDMENT

EDGE DISTANCE

2X WOOD BUCK/STRIP (IN FRAMING. SEE ANCHOR NOTE 3, SHEET 1

DETAIL F2

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E3

CONCRETE/CMU PER ANCHOR REQUIREMENT

EDGE DISTANCE

EMBEDMENT

1/4" MAX.

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

DETAIL E4

WELDON, ALUMINWELD, IRWARM OR STEEL STUD MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES TABLE A, SHEET 1

EDGE DISTANCE

EMBEDMENT

1/4" MAX.

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE DISTANCE PER SUBSTRATE. SEE TABLE A, SHEET 1 & NOTE 3, THIS SHEET

SILL NOSING WITH REQUIRED POSITIVE DESIGN PRESSURE. SEE SHEET 6.

SILL NOSING (2-1/2" TOTAL SILL HEIGHT)

SILL RISER (3-1/2" TOTAL SILL HEIGHT)

SILL RISER (4-1/16" TOTAL SILL HEIGHT)

SILL RISER (4-5/8" TOTAL SILL HEIGHT)

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEETS 10, 11, 12, 13 AND 14 FOR ANCHOR LOCATION & SPACING FOR ANCHOR QUANTITIES, SEE TABLES 1 - 3.
4) CONTINUOUS ANCHOR PLATE (TYP.) MAY BE REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
5) SEE SHEET 16 FOR SCREEN DETAILS.
6) HEADERS BLOCK TO HEADER ATTACHMENT PREVENTS ANY EXPANSION OF MOVABLE PANEL FROM DISLODGING TO THE OUTDOOR.

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MODEL SERIES: WINGUARD VERT. SLIDING

SCALE: 1 1/2" = 1'-0"

DRAWN BY: [illegible]

DATE: [illegible]

REVISIONS

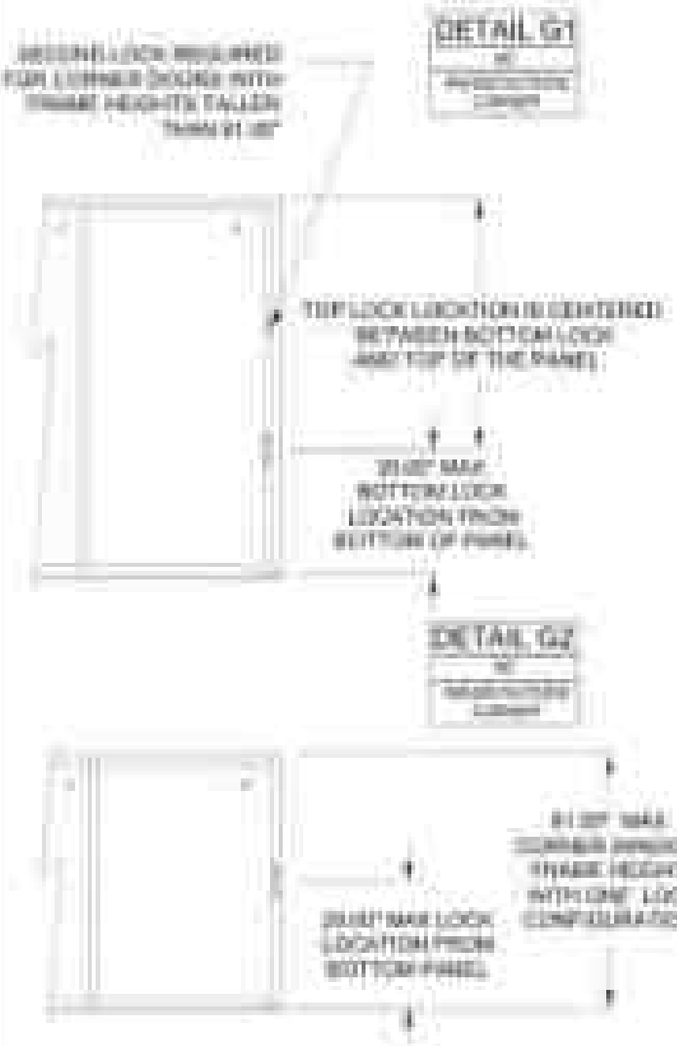
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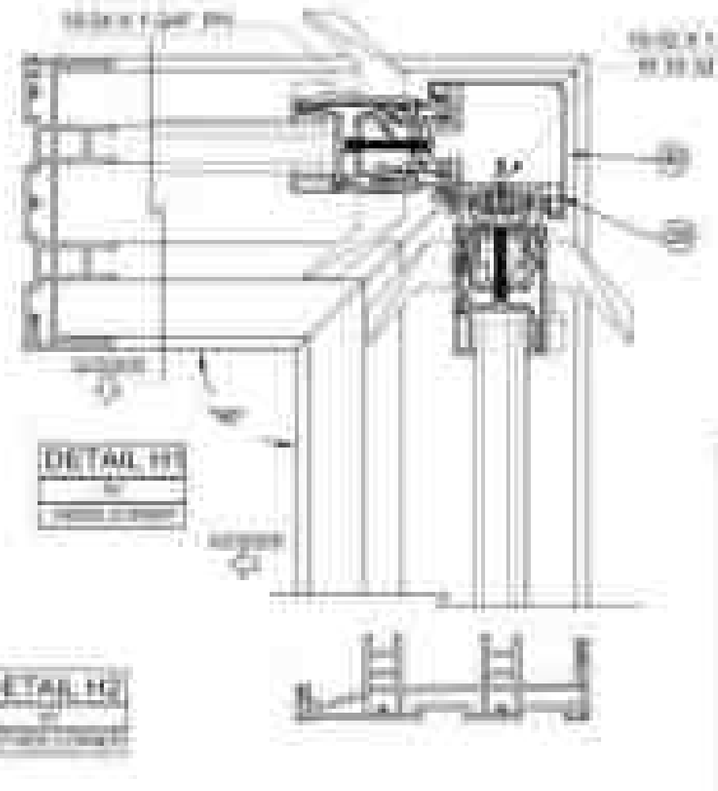
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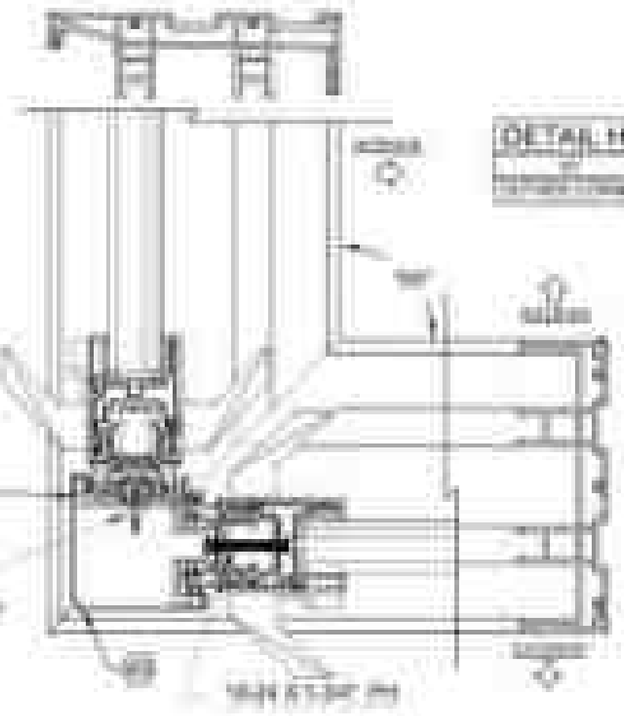
STATE OF FLORIDA

[illegible]

[illegible]

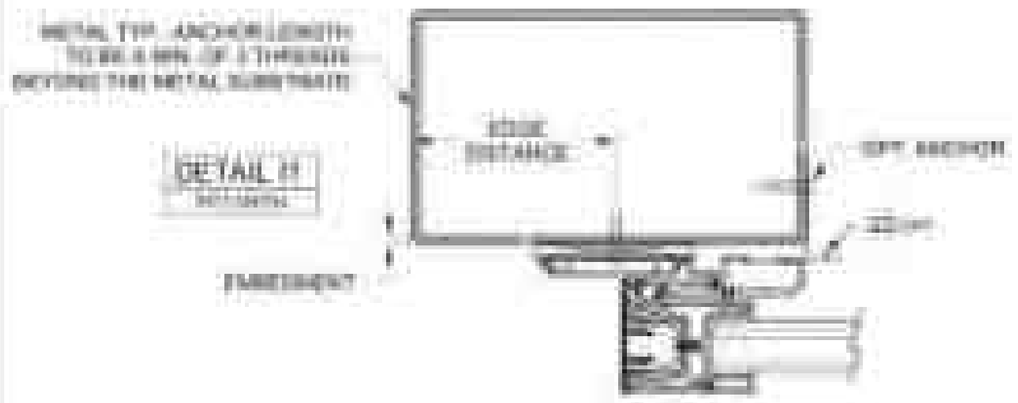




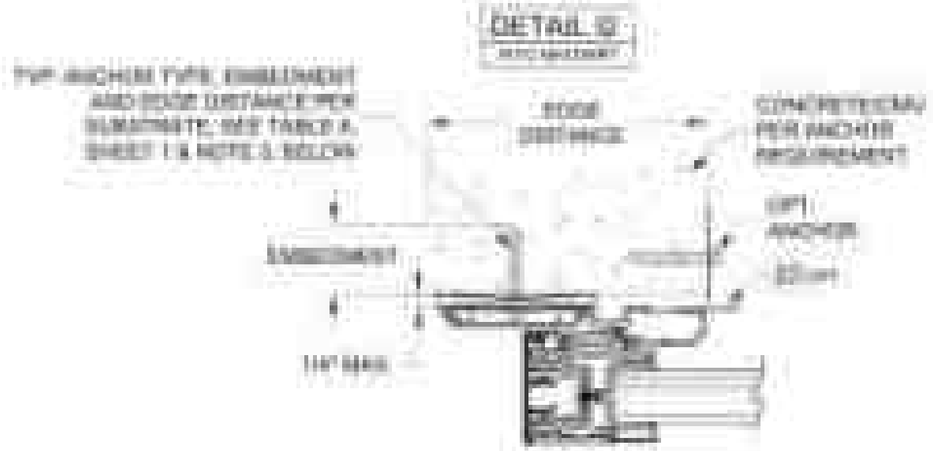


NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) SEE SHEETS 14 & 15 FOR ANCHOR LOCATION & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 1 - 3.
3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

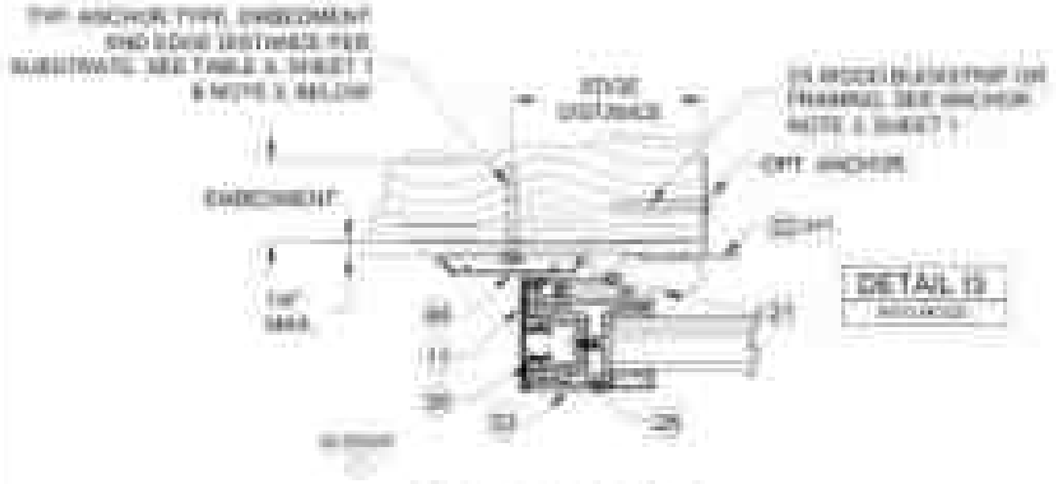
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EXTERIOR POCKET



EXTERIOR POCKET



EXTERIOR POCKET

NOTES:
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
2) REFER TO ANCHOR NOTES, SHEET 1.
3) SEE SHEET 1 & FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1.
4) SEE TABLES 1 - 2 FOR REINFORCEMENT REQUIREMENTS.
5) EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

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TABLE 1:

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

Nominal Panel Width (in)	Nominal Door Height (in)	Design Pressure	5'-0"				6'-0"				7'-0"				8'-0"				9'-0"			
			Anchors Along Header		Anchors Along Sill		Anchors Along Header		Anchors Along Sill		Anchors Along Header		Anchors Along Sill		Anchors Along Header		Anchors Along Sill		Anchors Along Header		Anchors Along Sill	
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24"	6'-1 1/2" (78.5 Inches)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Tested Size																				
		Jambs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sill Leaf	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24"	80 1/2" (80.5 Inches)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Tested Size																				
		Jambs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sill Leaf	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24"	81 1/2" (81.5 Inches)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Tested Size																				
		Jambs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sill Leaf	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24"	97 1/2" (97.5 Inches)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Tested Size																				
		Jambs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		Sill Leaf	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

USED IN EXAMPLE ON SHEET 11

PGT

WINGUARD SYSTEM

SLIDING GLASS DOOR WINDSTORM

SHEET NUMBER

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED THE LESSER VALUES OF EITHER TABLE 1 AND TABLE 2 DETERMINE THE SUITABLE RATED +DP WITH TEST PRESSURE @ 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 5. SEE SHEETS 11-13 FOR ANCHOR LOCATION & SPACING.

4) SHEET APPLIES TO 2, 3 AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

FIG 1

OVERHANG

5 FT MIN.

WHEN USED IN A FIXED 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.

TABLE 01:

Wgm Limited (+) Design Pressure		
Sill Riser	Nom. Sill Height	Max. (+) DP Allowed
None	1'-1 1/2"	See Note 3
#2	2'-1 1/2"	+38.7 psf
#3	3'-1 1/2"	+40.0 psf
#4	4'-1 1/2"	+40.0 psf
#5	5'-1 1/2"	+40.0 psf

DLO WIDTH = NOMINAL PANEL WIDTH - 4 1/2"
GLASS WIDTH = DLO WIDTH + 1.5"
DLO HEIGHT = DOOR UNIT HEIGHT - 2 1/2"
GLASS HEIGHT = DLO HEIGHT + 1.5"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2 1/2"

TABLE 2

Design Pressure (DP) and Anchor Quantities Required (for all approved configurations on Sheet 3)

			Room Use Height																									
			15'				20'				25'				30'				35'				40'				45'			
			30'-0" (9144) Height				30'-0" (9144) Height				30'-0" (9144) Height				30'-0" (9144) Height				30'-0" (9144) Height				30'-0" (9144) Height				30'-0" (9144) Height			
			Middle Rating				Middle Rating				Middle Rating				Middle Rating				Middle Rating				Middle Rating				Middle Rating			
			A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
SL*	SLIDE (SLD) Weight	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Head/Sill																												
		Jamb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Mullion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SH	SH (SH) SLD	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Head/Sill																												
		Jamb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Mullion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HS*	2" HS SLD (50.80)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Head/Sill																												
		Jamb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Mullion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SH	2-1/2" SLD (63.50)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Head/Sill																												
		Jamb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Mullion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SP*	3" SLD (76.20)	Design Pressure	+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf				+50 / -50 psf			
		Head/Sill																												
		Jamb	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Mullion	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TABLE NOTES

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED THE LESSER VALUES OF EITHER TABLE 2 AND TABLE 3 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, SILL RISER IS NOT REQUIRED. IN THAT CASE, +DP'S SHOWN IN TABLE 2 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4. SEE SHEETS 11-19 FOR ANCHOR LOCATIONS & SPACING.

4) SHEET APPLIES TO 2- AND 4- PANEL CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

FIG. 1



WHEN USED IN A PASS-THROUGH SINGLE OR 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.

TABLE 3D

Water-Limited (+) Design Pressure		
Unit Riser	Room 3-6 Height	Water (+) DP Allowed
None	1'-11 7/8"	See Note 2
42	2-1/2"	+39.7 psf
43	3-1/2"	+60.0 psf
44	4-1/16"	+80.0 psf
45	4-5/8"	+80.0 psf

DLO WIDTH = NOMINAL PANEL WIDTH + 4-7/8"
GLASS WIDTH = DLO WIDTH + 1.5"
DLO HEIGHT = DOOR UNIT HEIGHT - 7-7/16"
GLASS HEIGHT = DLO HEIGHT + 1.5"
PANEL HEIGHT = DOOR UNIT HEIGHT - 2-7/16"

PGT

WINGUARD IMPACT WINDOWS

TABLE OF CONTENTS

SHEET INDEX

SHEET NO.

REVISIONS

DATE

DRAWN BY

CHECKED BY

SCALE

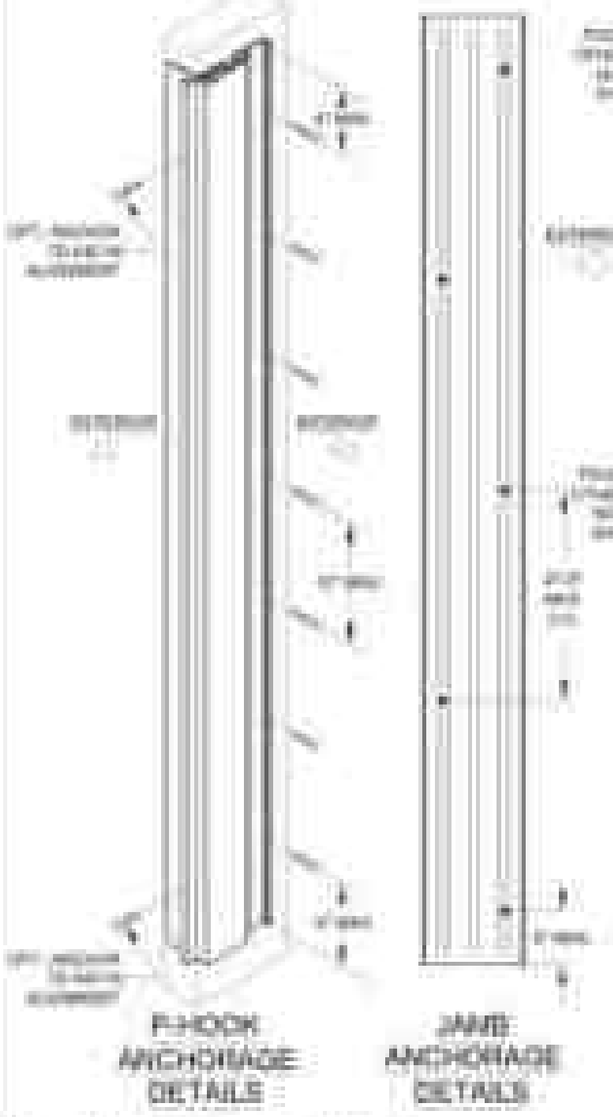
DRAWING NO.

PROJECT NO.

DATE

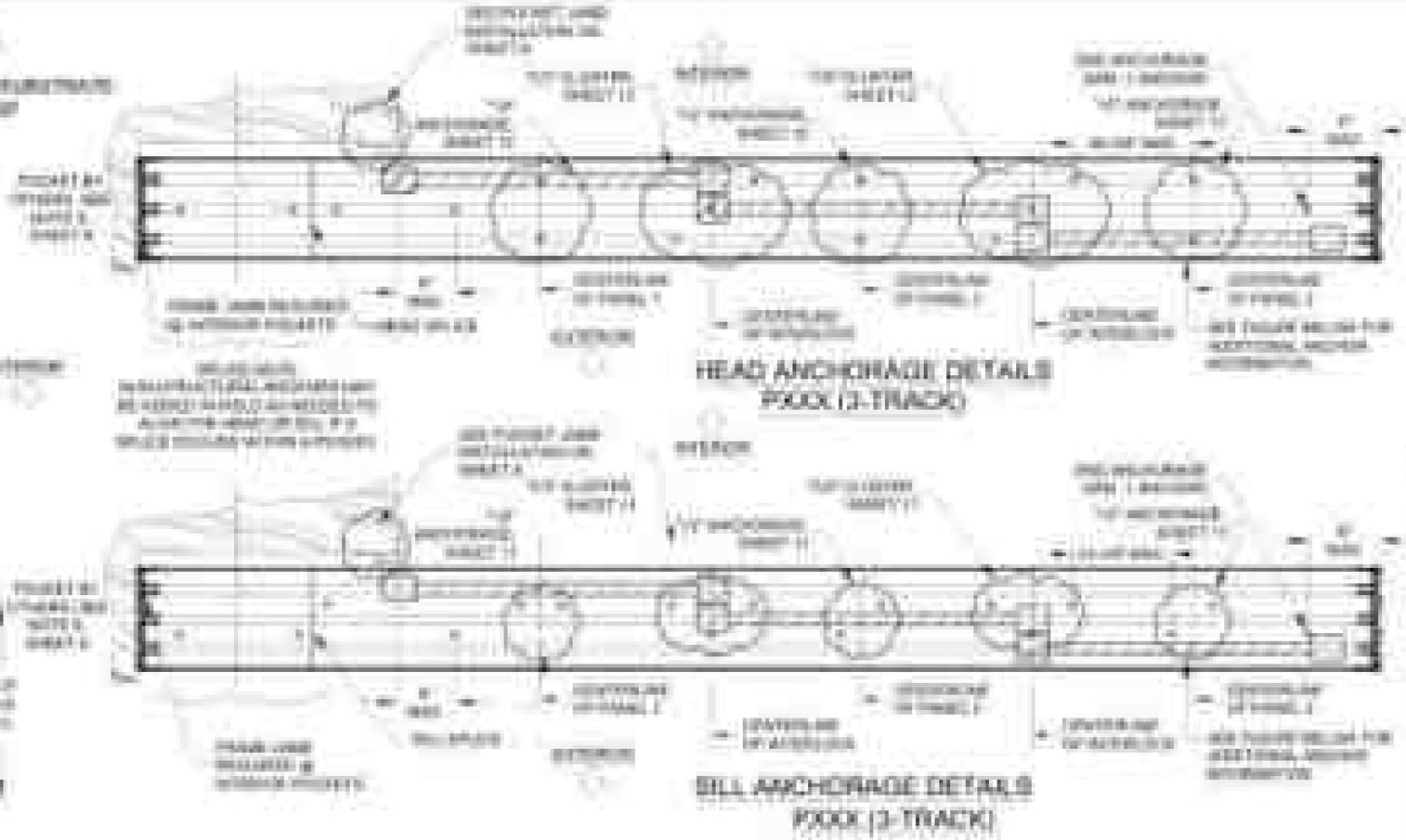
SHEET NO.

EXAMPLE:
3-PANEL, 3-TRACK, STRAIGHT CONFIGURATION: PXXX
INTERIOR MOUNT POCKET, 48" X 80" NOM. PANELS
(INSPATEC 3D GLAZING ANCHOR GROUP 5 IN WOOD SUBSTRATE
PROJECT DESIGN PRESSURE REQUIRED: +40.0 /-54.0 PSF



P-HOOK ANCHORAGE DETAILS

JAMB ANCHORAGE DETAILS



HEAD ANCHORAGE DETAILS
PXXX (3-TRACK)

SILL ANCHORAGE DETAILS
PXXX (3-TRACK)

FOR PRODUCT REFERENCES ALSO SEE:
A) SHEET 2 FOR ALL OPERABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS SECTION DRAWINGS.
B) SHEET 1 FOR SPECIFIC GLAZING TYPES.
C) SHEET 17 FOR ALL LOWABLE PANEL TYPES AND SILL NOSING.
D) SHEETS 18 FOR EXTRUSION DRAWINGS.
E) SHEET 19 FOR A BILL OF MATERIALS.

1) KNOWING THE PRODUCT'S REQUIREMENTS SCAN THROUGH TABLE 1 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +40.0 / -54.0 AT A NOM. PANEL SIZE OF 48" X 84" FROM TABLE 1, SHEET 1. THE DESIGN PRESSURE IS +50.0/-50.0 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR INSPEC INSTALLATION USING ANY ANCHOR IN GROUP 5 (SEE TABLE A) TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

FASTENER	QTY
#8 SCREW	3
1" THICK	3

2) ANCHOR LOCATION DETAILS CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK.
HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "+3 ANCHORS AT THE MIDSPAN OF EACH PANEL.
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK.
SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "+3 ANCHORS AT THE MIDSPAN OF EACH PANEL.
JAMB: 9 ANCHORS, SHEET 10 FOR SIDE LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 12 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INFO WHICH CAN BE FOUND ON:
HEAD & SILL: SHEET 9
JAMB: SHEET 8
P-HOOK: SHEET 7

END PANEL ANCHOR EXCEPTION:



FOR SILL (SHOWN) AND HEAD, ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE C/C DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 25-3/8". OTHERWISE ANCHORS ARE NOT REQUIRED AS PER THE FIGURE ABOVE.

PGT
PGT INDUSTRIES
1070 TAMIAMI TRAIL NORTH
NOKOMIS, FLORIDA 34275
941-486-0594

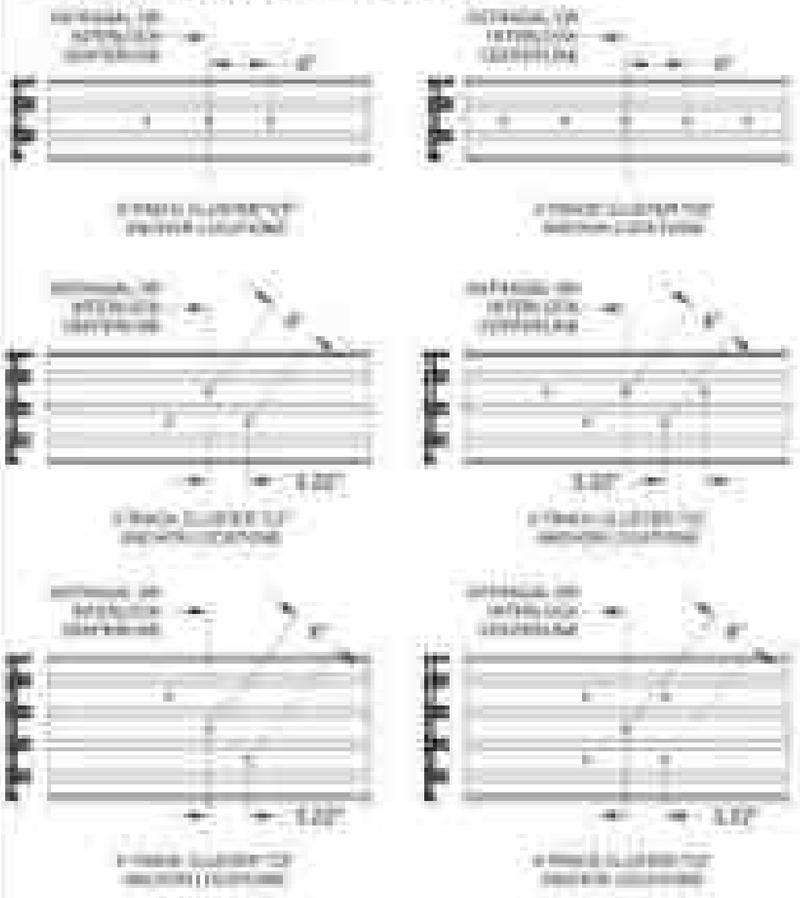
WINDOW SYSTEM DESIGN APPROVAL

PXXX

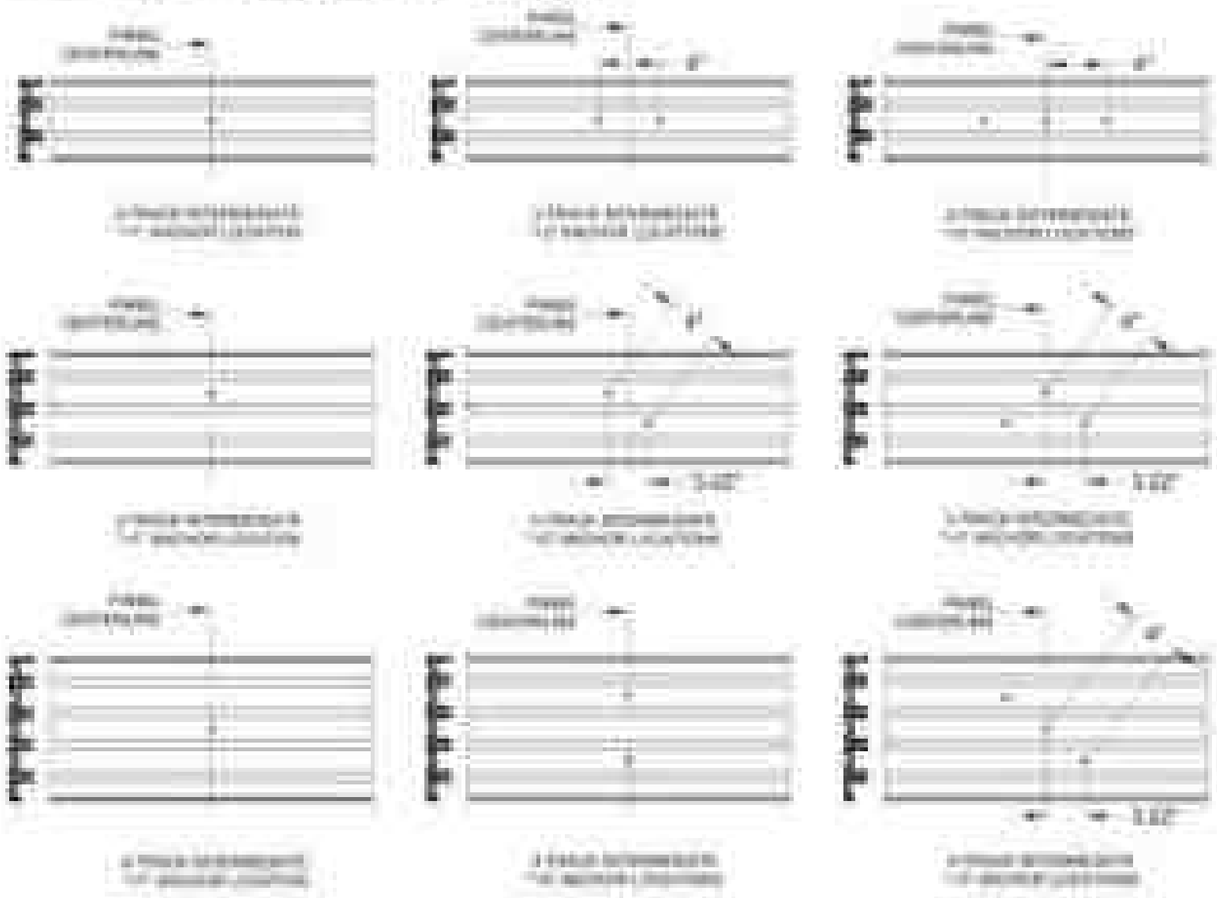
SHEET 3

STATE OF FLORIDA

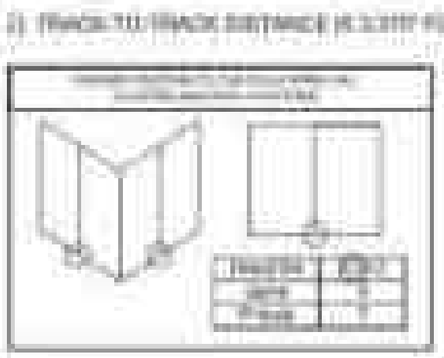
SILL CLUSTER ANCHORS LAYOUT



SILL "V" INTERMEDIATE ANCHORS LAYOUT

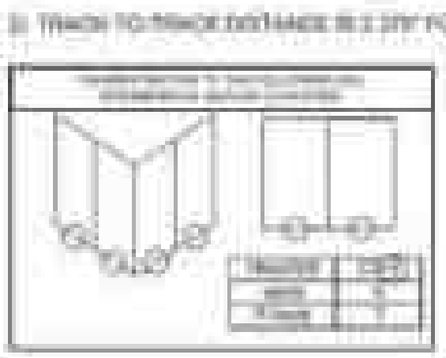


NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 3.375" FOR ALL SILLS.





NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
2) TRACK-TO-TRACK DISTANCE IS 3.375" FOR ALL SILLS.





PGT

WOODWORKS

SILL ANCHOR LOCATIONS



HEAD CLUSTER ANCHORS LAYOUT







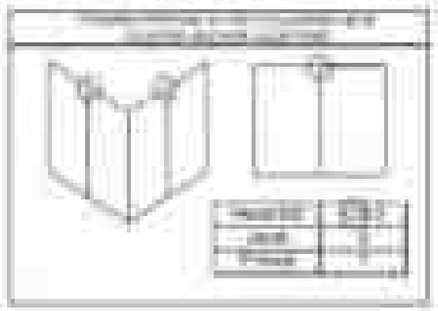






NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK TO TRACK DISTANCE IS 2.375" FOR ALL HEADS.





HEAD "n" INTERMEDIATE ANCHORS LAYOUT













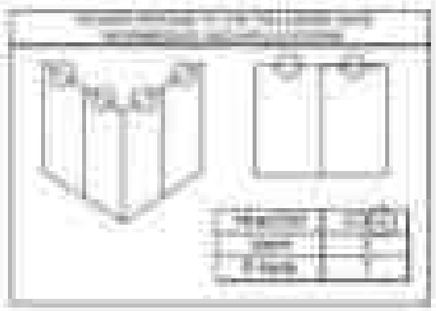






NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK TO TRACK DISTANCE IS 2.375" FOR ALL HEADS.

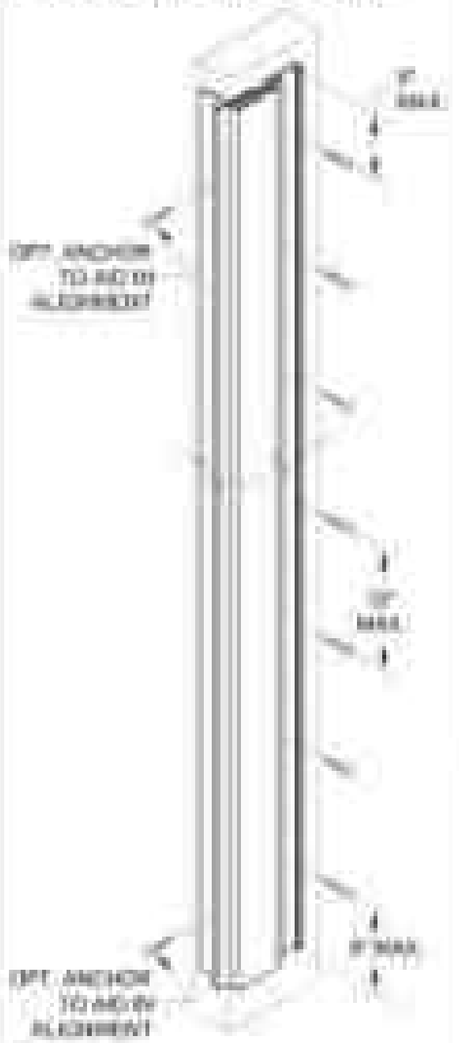




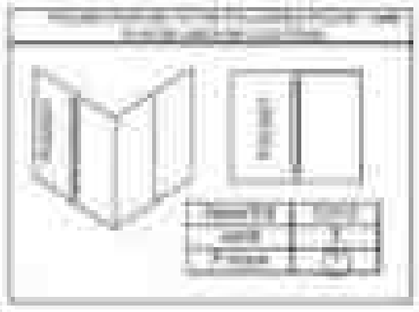
PGT



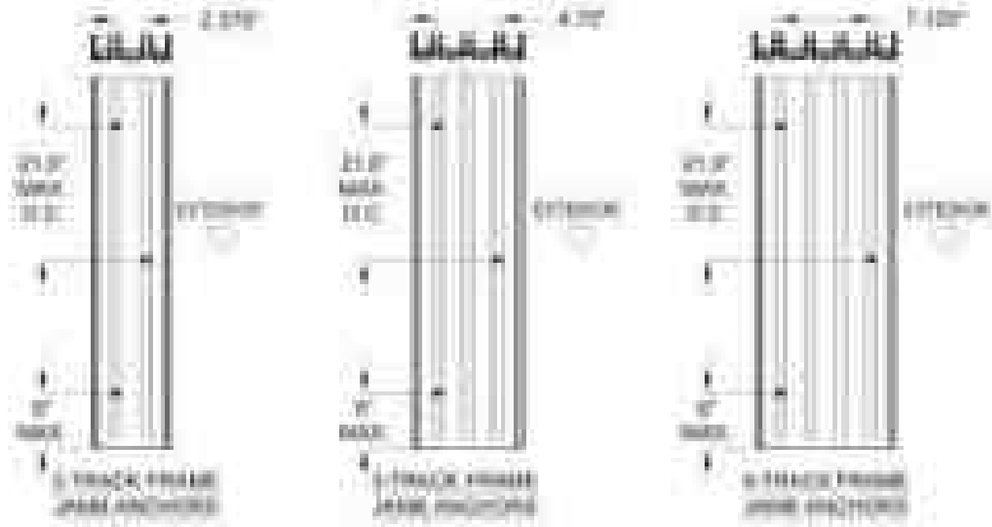
PANDOR ANCHORS LAYOUT

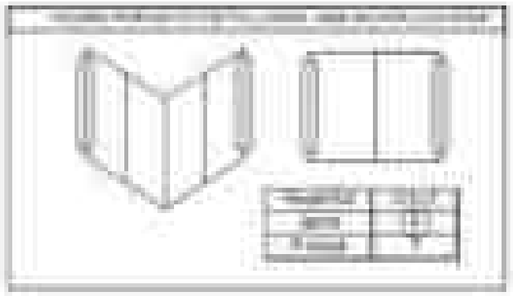


NOTES:
1) SEE TABLES 1 - 3 FOR EXACT QUANTITY OF ANCHORS REQUIRED FOR PANDOR.

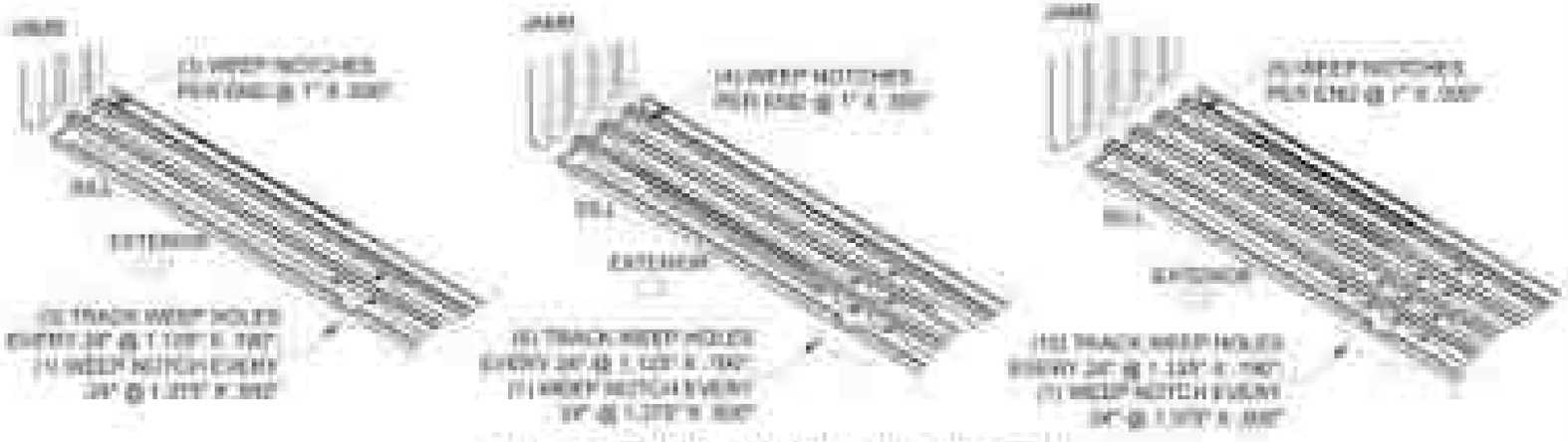


JAMB ANCHORS LAYOUT (PARTIAL VIEW)





NOTES:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4 TRACK JAMBS, ANCHORS MAY BE LOCATED IN ADJACENT TRACKS (SHALL NOT TO THAT 2 TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.

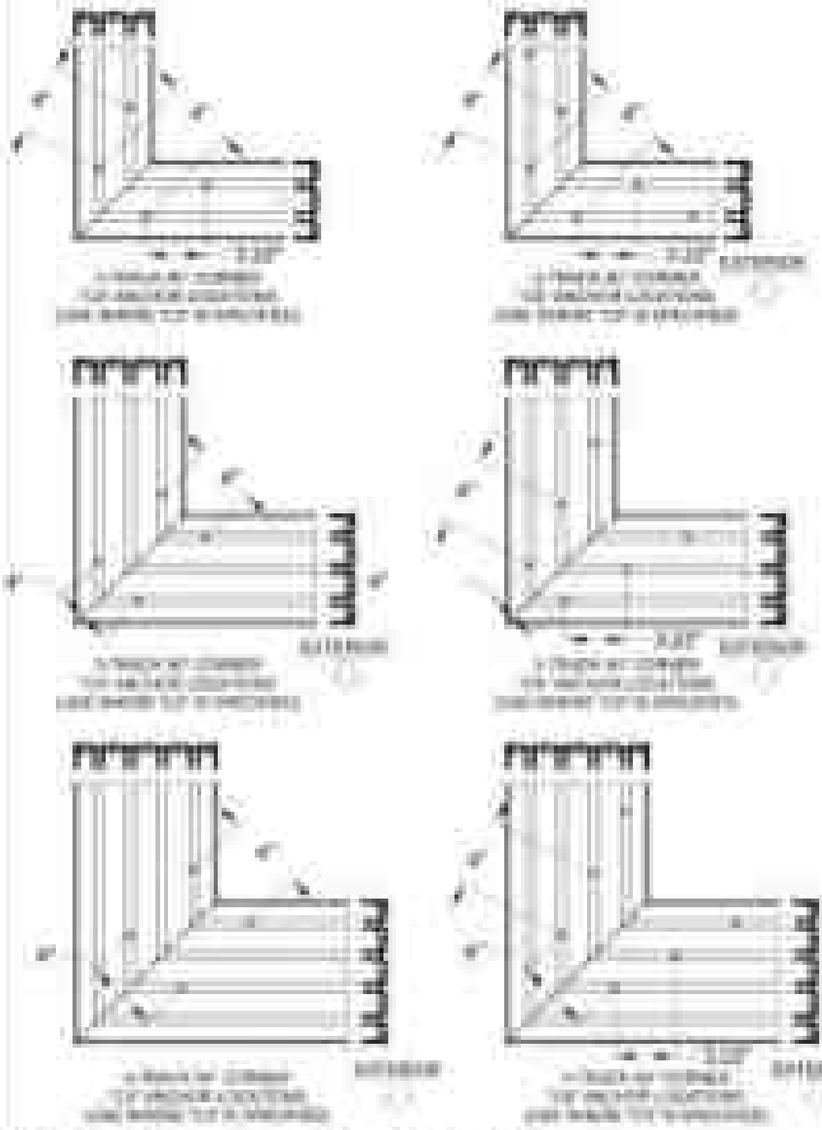


SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)

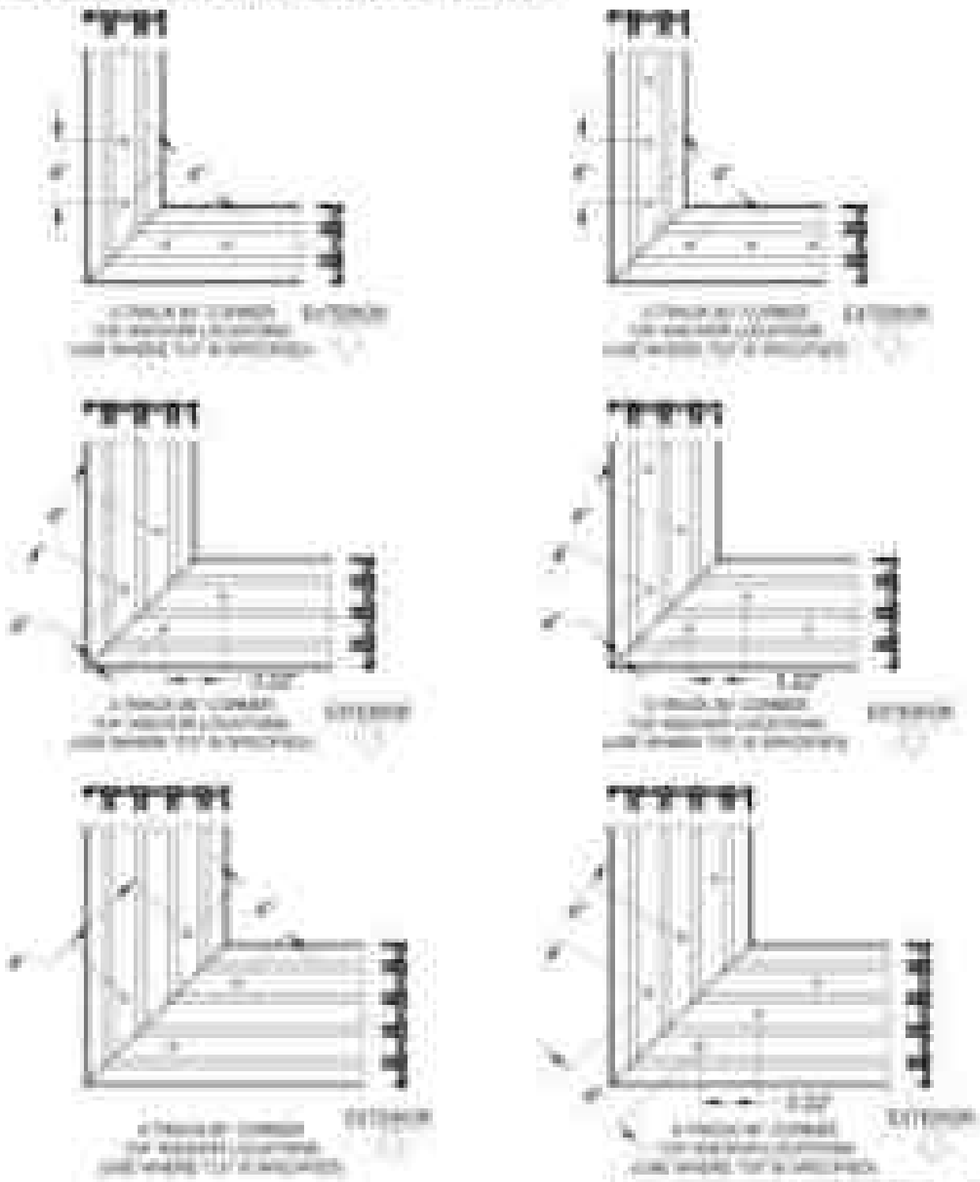
PGT

WINDOWS DOORS

HEAD 90° CORNER CLUSTER ANCHORS LAYOUT



SILL 90° CORNER CLUSTER ANCHORS LAYOUT



NOTES

1) ALL DIMENSIONS SHOWN ARE BASED ON MAXIMUM ALLOWED.

2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.

3) TRACK TO TRACK DISTANCE +0.3 3/16" FOR ALL HEADS AND SILLS.



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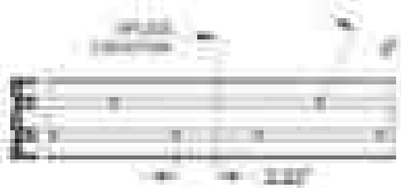
MODEL SLIDING WINDOW

INSTALLATION DETAILS

ANCHOR LOCATIONS

HEAD SPLICE ANCHORS @ INTERLOCK

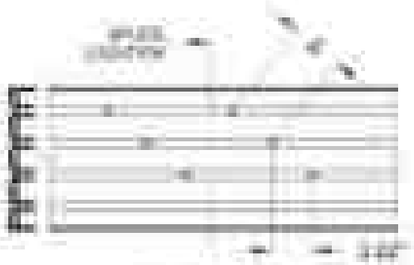












SILL SPLICE ANCHORS @ INTERLOCK



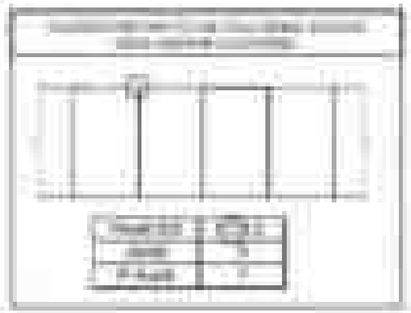












NOTES:

1) ALL DIMENSIONS SHOWN ARE BASED ON NAAMM RP ALUMINO

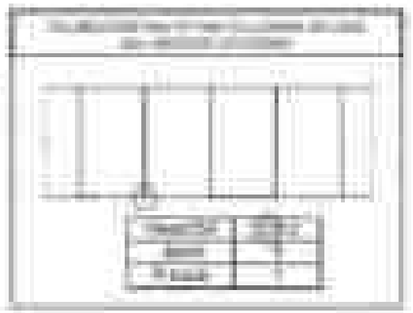
2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE INTERFACIAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 10.

3) POCKET SHALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

4) TRACK TO TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS







PGT



PANEL STILE TYPES

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F			
PP			
K			
L			
SM			

PANEL STILE TYPES

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E			
P			
A			
CO			
C			

PANEL STILE TYPES

RR			
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PANEL STILE TYPES

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PANEL STILE TYPES

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SCREEN PANEL TYPES

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J			
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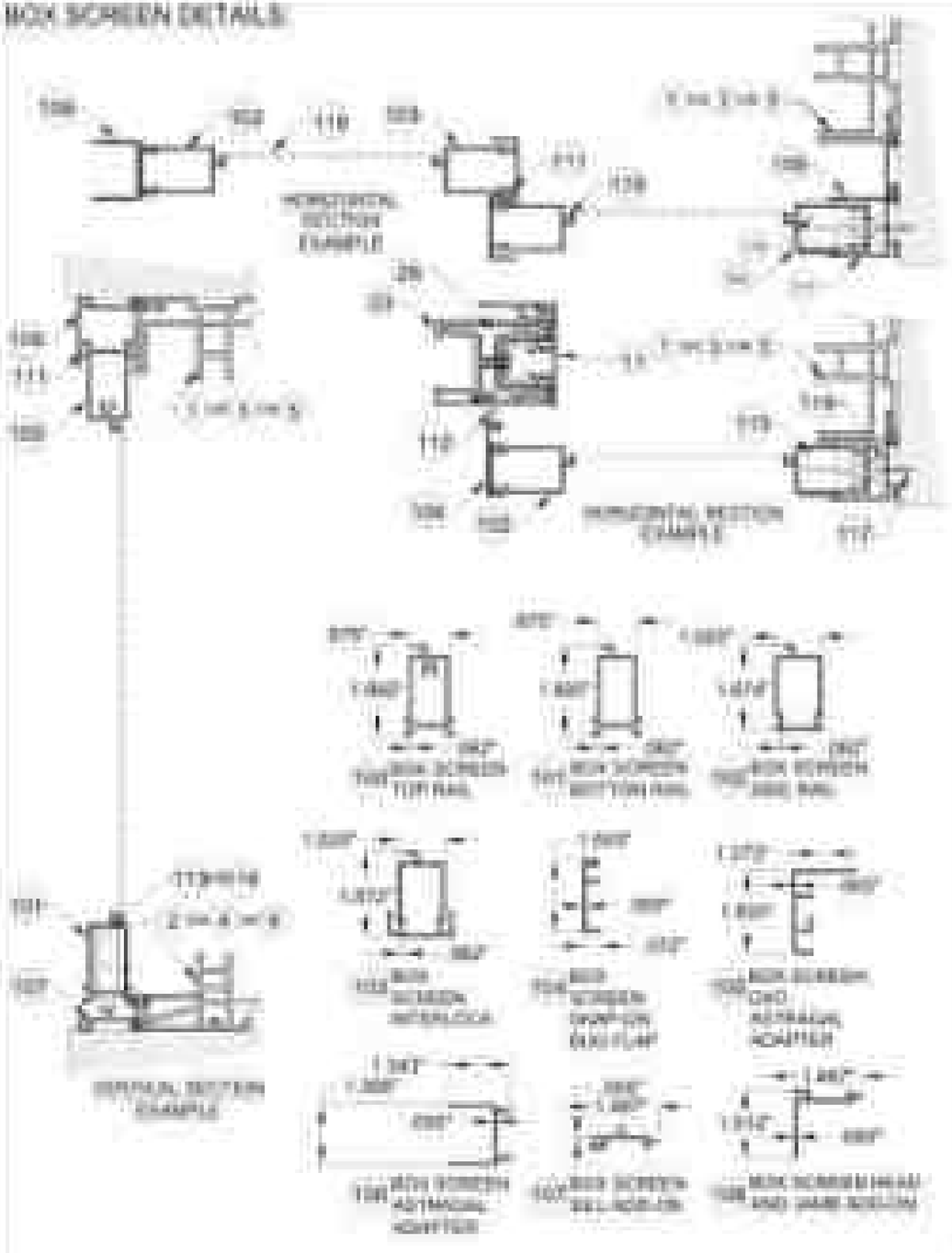
PANEL TYPE 'F' SHOWN

PANEL NOTES:

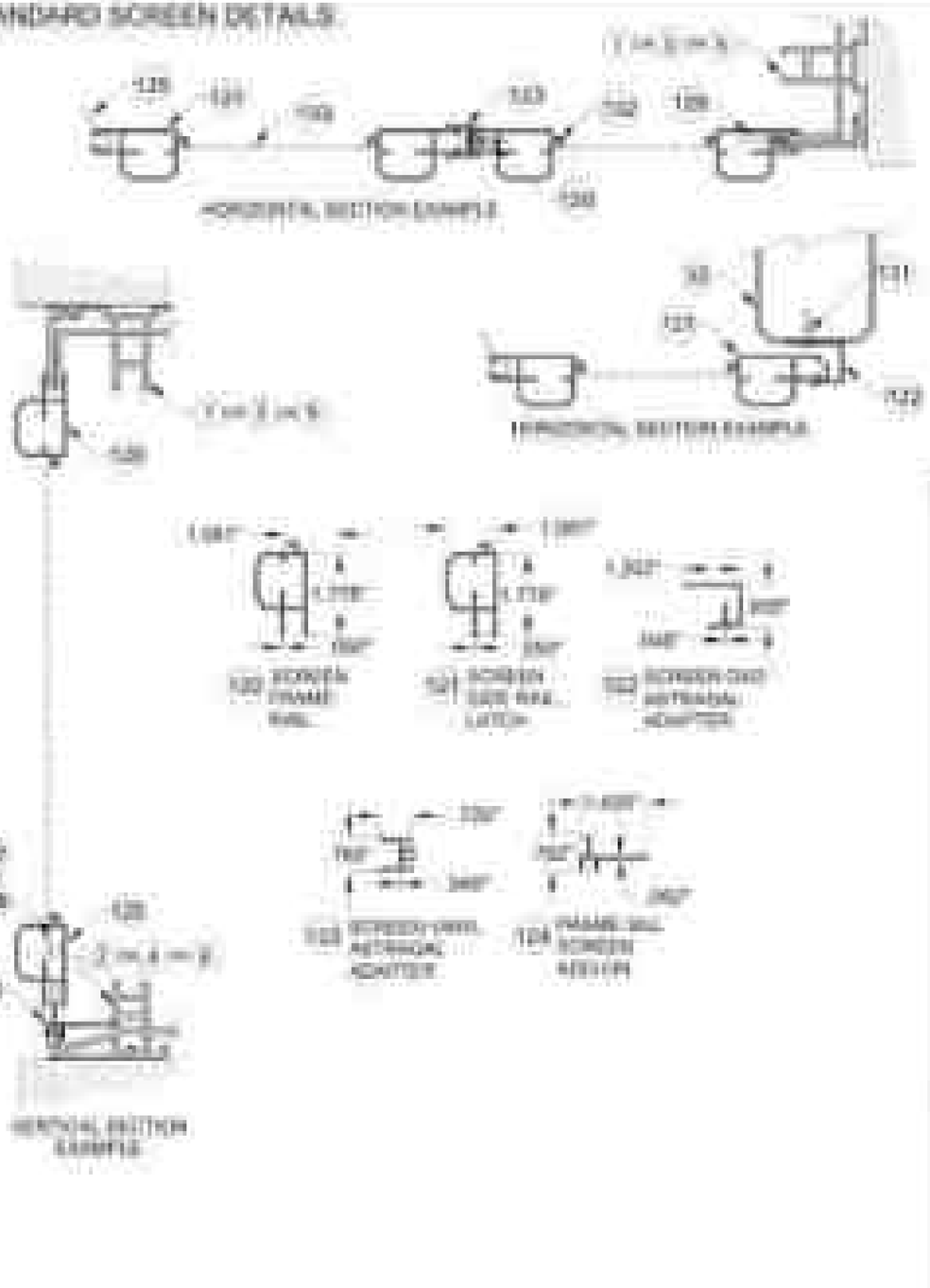
1) SEE DFW/CHOW TABLES 1 - 2, SHEETS 6 & 7 FOR PANEL SIZES & DESIGN PRESSURE.
2) PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3) MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 89".

PGT

BOX SCREEN DETAILS



STANDARD SCREEN DETAILS



PGT



1) 2 TRACK HEAD/JAMB

2) 4 TRACK SILL

3) 3 TRACK HEAD/JAMB

4) 3 TRACK SILL

5) 4 TRACK HEAD/JAMB

6) 3 TRACK SILL

7) 4 TRACK EXT JAMB COVER

8) FRAME SCREW COVER (PKG)

9) MID MEEK PLATE

10) TRACK INSERT

11) H-WORK

12) 3 TRACK EXT JAMB COVER

13) SILL TRACK COVER

14) H-MEEK ADAPTER

15) EXTENDED RAIL

16) H-TRACK COVER

17) REAR SCREEN CORNER

18) LUG BRACE

19) 2 TRACK EXT JAMB COVER

20) MA STEEL INTERLOCK

21) H-WORK INTERLOCK

22) 3 TRACK EXT JAMB COVER

23) MA EXT. RAIL COVER

24) OUTER SCREEN TRACK COVER

25) HEADER RAIL

26) MA REINFORCEMENT

27) MA STEEL REINFORCEMENT

28) ADDITIONAL REINFORCEMENT

29) MA PANEL STILE

30) MA LOCK ADAPTER

31) MA LOCK CORNER

NOTES:
1. SEE SHEET 4 FOR SILL PARTS.
2. SEE SHEET 16 FOR SCREEN PARTS.

PGT

MODEL SERIES 1001

SECTIONS

SHEET NO. 5

PGT INDUSTRIES

1070 U.S. HIGHWAY 41 BYPASS
VENICE, FLORIDA 34285

TABLE C1

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