

May 26, 2016

Reference: Removal of Florida Product Approval FL-8208  
PGT Series SGD-470 PVC Sliding Glass Door

To whom it may concern:

Recently, Florida Product Approval FL-8208 was removed from the Florida Product Approval website. There may be instances where a SGD-470 door was ordered in our system prior to the removal of this product approval that may still have a reference to FL-8208 on the white certification label.

The purpose of this letter is to certify that all of the testing and Keystone certifications associated with FL-8208 are still valid and the product is still in full compliance with the Florida Building Code 5<sup>th</sup> Edition (2014).

The attached installation drawings are the original drawings that were included in FL-8208.1. Provided the product is constructed and installed in accordance with these drawings, it will be in full compliance with the Florida Building Code 5<sup>th</sup> Edition (2014).

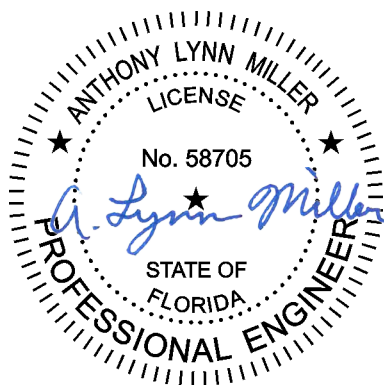
If you should have any questions or require further clarification, please feel free to contact our office.

Sincerely,



5/26/2016

A. Lynn Miller, P.E.  
Code Compliance Engineer  
Florida Registration #58705  
FL Cert. of Auth. #29296



GENERAL NOTES: SERIES 470 NON-IMPACT SLIDING GLASS DOOR

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE. ALL RIGID WHITE OR TAN PVC AND COMPOSITE REINFORCEMENT MANUFACTURED BY VISION EXTRUSIONS, LTD. HAS BEEN TESTED TO COMPLY WITH THE FLORIDA BUILDING CODE FOR PLASTICS.

2) GLAZING TYPE: (FROM EXTERIOR TO INTERIOR); 3/16" TEMPERED GLASS + 11/16" AIR SPACE + 3/16" TEMPERED GLASS CAP; APPROVED BACKBEDDINGS ARE GE 7700 AND DOW-CORNING 995.

3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, SHEET 6. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X 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 TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) (MAX. 1/4" SHIM SPACE FOR GROUT) 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.

5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENTS SHOWN ON TABLE 1, SHEET 6. PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

6) DESIGN PRESSURES:  
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.  
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.

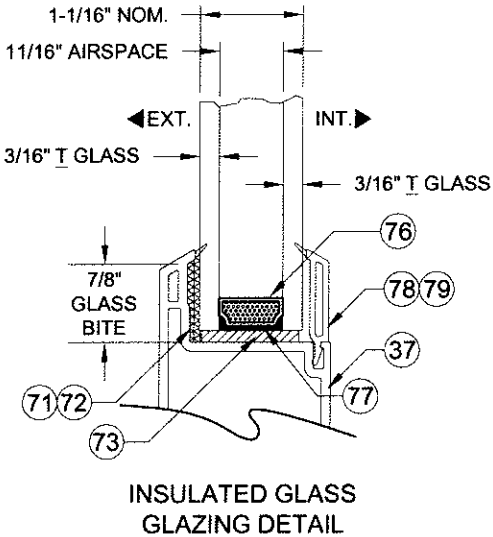
7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

8) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

9) ALL DOOR CONFIGURATIONS, UP TO 8 PANELS AND/OR 4 TRACKS, ARE QUALIFIED, SEE SAMPLE CONFIGURATIONS ON SHEET 12. DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.

10) REFERENCES: TEST REPORTS FTL-6337 & 6338

DESIGN PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 8 & 9	NOT RATED FOR IMPACT RESISTANCE



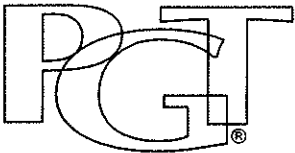
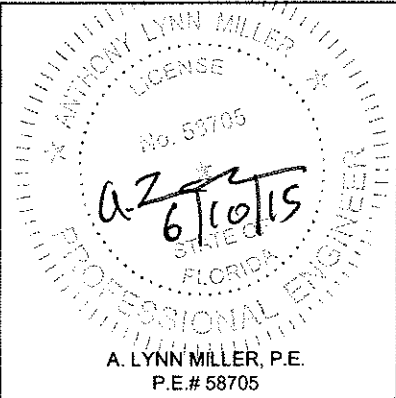
NOA DRAWING MAP

SHEET	
GENERAL NOTES.....	1
GLAZING DETAILS.....	1
ELEVATIONS.....	2-4
HORIZ. SECTIONS.....	5
VERT. SECTIONS.....	6
ACCESSORIES.....	7
DESIGN PRESSURES....	8-9
EXTRUSIONS.....	10
PARTS LIST.....	11
CONFIGURATIONS.....	12
PANEL TYPES.....	13

Door Size		Configuration	Design		Certification Numbers
Width	Height		(+) psf	(-) psf	
241"	96"	XXXX	60	60	190-771
203"	120"	XXXX w/astragal	60	65	190-774
203"	96"	XXXX w/astragal	60	60	190-770
203"	96"	XXXX w/astragal	80	80	190-772

INSTRUCTIONS:

1. KNOWING THE REQUIRED DESIGN PRESSURE OF THE OPENING, THE ANCHOR REQUIREMENTS FOR THE SLIDING GLASS DOORS MAY BE DETERMINED FROM THE DESIGN PRESSURE TABLES. FOR DOORS USING THE HEAVY-DUTY REINFORCEMENT, USE TABLE 2, SHEET 8. FOR DOORS USING THE STANDARD OR COMPOSITE REINFORCEMENT, USE TABLE 3, SHEET 9.
2. LOCATE THE SLIDING GLASS DOOR SIZE ON THE TABLE, USING THE FRAME HEIGHT AND THE NOMINAL PANEL WIDTH. WHEN FINDING YOUR SIZE IN THE TABLE, ALWAYS ROUND UP TO THE NEXT LISTED SIZE.
3. CHOSE WHICH ANCHOR OPTION (A-D) IS MOST APPLICABLE. ANCHORS ARE DEFINED IN TABLE 1, SHEET 6, ALONG WITH THE APPROPRIATE SUBSTRATE, MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE.
4. FROM THE DESIGN PRESSURE TABLES (TABLES 2-3, SHEETS 8 & 9), VERIFY THAT THE REQUIRED DESIGN PRESSURE IS MET OR EXCEEDED. USE THE ANCHOR QUANTITIES SHOWN.
5. INSTALL AS PER THE INSTRUCTIONS ON SHEETS 5 & 6, USING THE ANCHOR SPACING OUTLINED ON SHEETS 2-4.
6. ADDITIONAL INSTALLATION CLIPS MUST BE INSTALLED AS SHOWN ON SHEET 7.



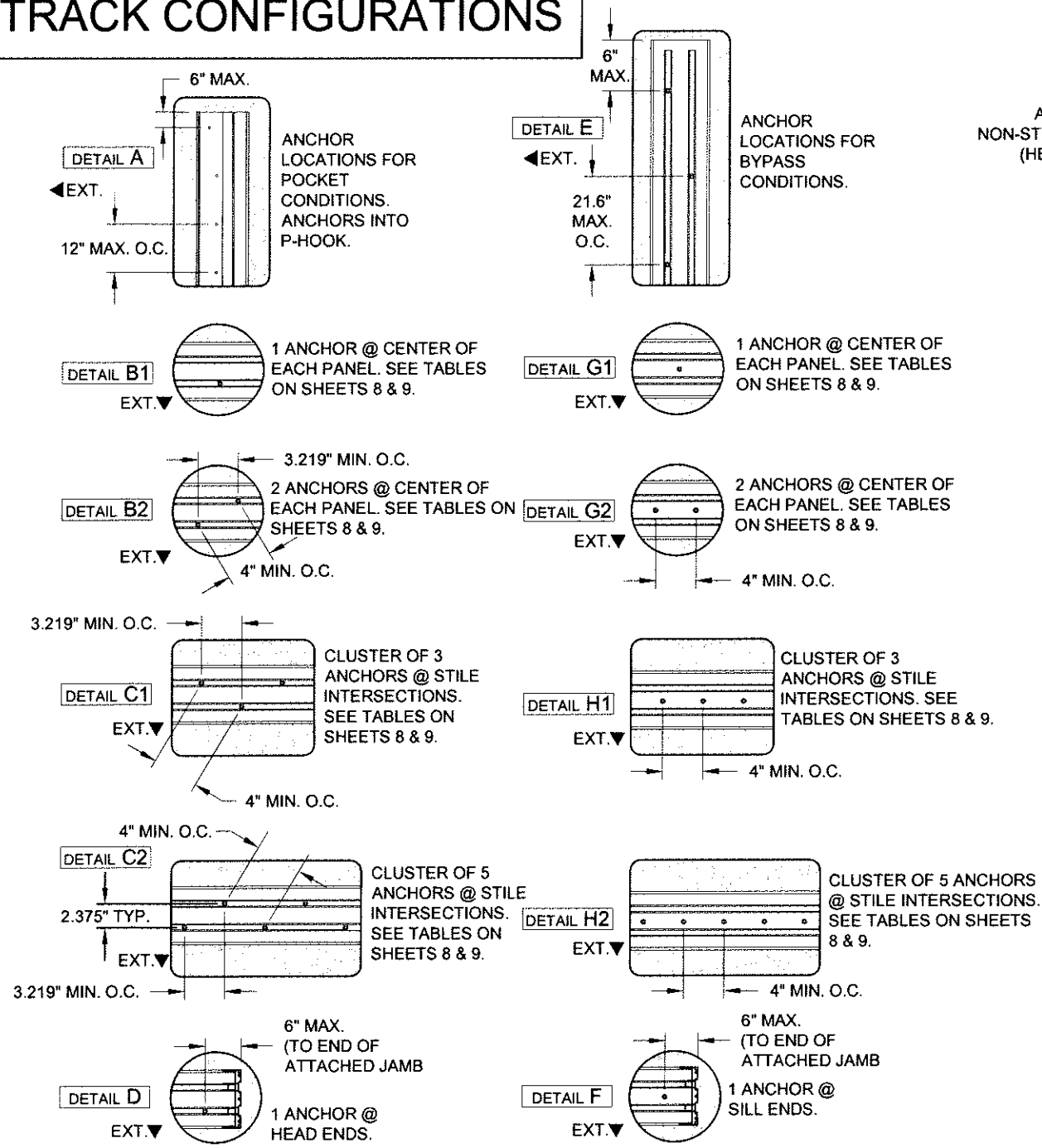
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

CERT. OF AUTH. #29296

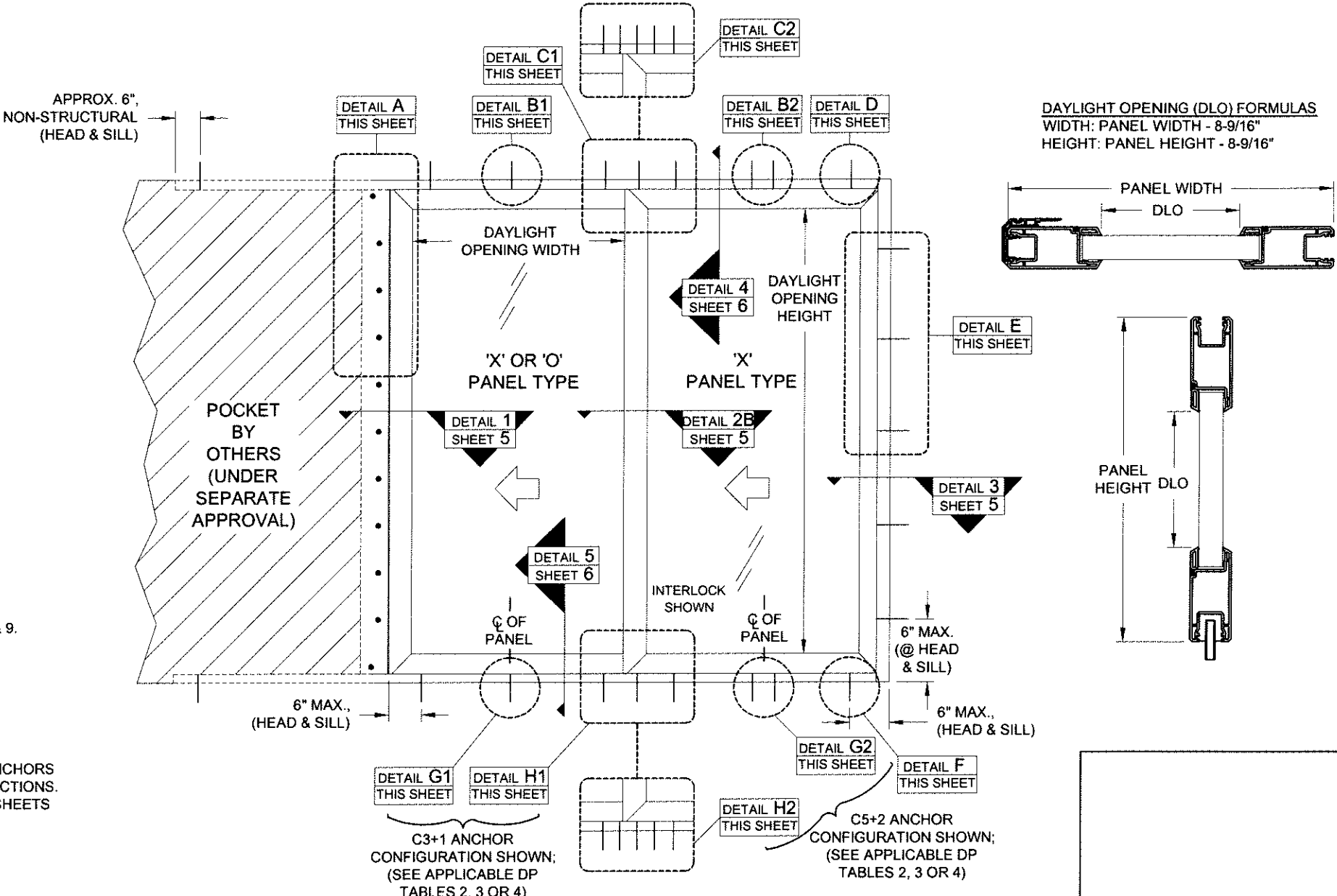
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:

Description: GENERAL NOTES & GLASS TYPES			Drawn By: J ROSOWSKI		
Title: VINYL SGD INSTALLATION GUIDELINES			Date: 11/18/10		
Series/Model: 470	Scale: NTS	Sheet: 1 OF 13	Drawing No. FLA-SGD470-01	Rev:	

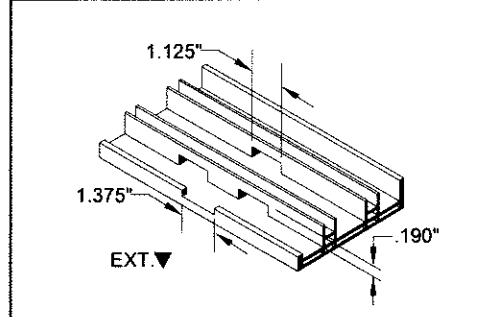
2-TRACK CONFIGURATIONS



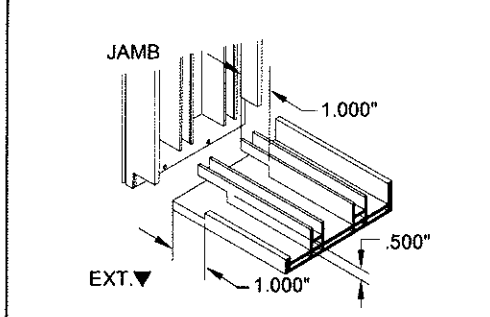
NOTE: SEE TABLE 1, SHEET 6 FOR ANCHOR EDGE DISTANCE AND EMBEDMENT.



- NOTES:
- 1) FOR CONFIGURATIONS, SEE SHEET 12.
  - 2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.
  - 3) DAYLIGHT OPENING (DLO) FORMULAS:  
WIDTH: PANEL WIDTH - 8-9/16"  
HEIGHT: PANEL HEIGHT - 8-9/16"
  - 4) PANEL HEIGHT = FRAME HEIGHT - 2.5"



WEEPHOLE PATTERN @ 24" O.C.



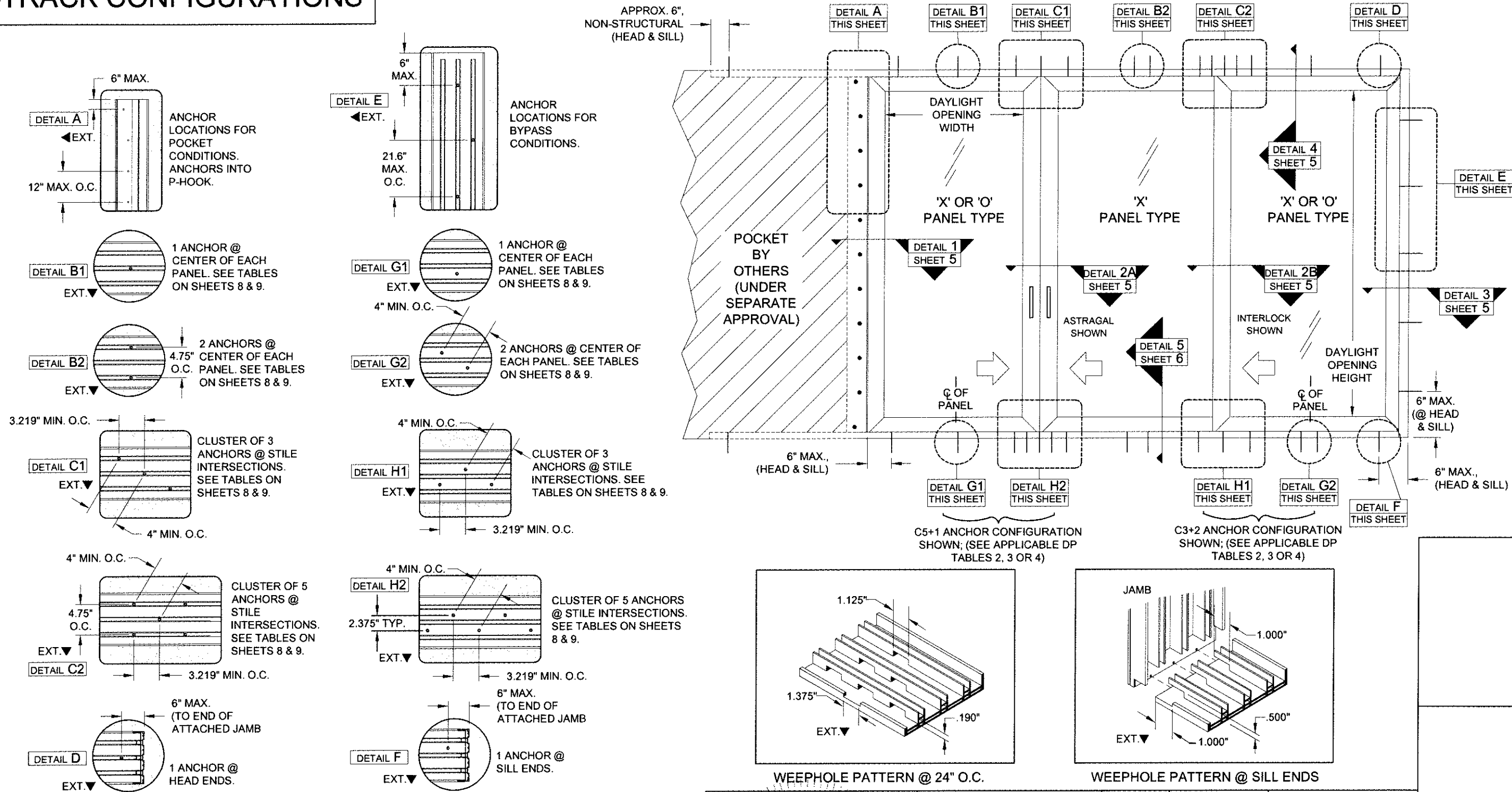
WEEPHOLE PATTERN @ SILL ENDS

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PROFESSIONAL ENGINEER  
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P.E.# 58705

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Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description:		Drawn By:
ANCHOR LOCATIONS (2 TRACKS)		J ROSOWSKI
Title:		Date:
VINYL SGD INSTALLATION GUIDELINES		11/18/10
Series/Model:	Scale:	Sheet:
470	NTS	2 OF 13
Drawing No.		Rev:
FLA-SGD470-01		

3-TRACK CONFIGURATIONS



NOTES:  
1) FOR CONFIGURATIONS, SEE SHEET 12.  
2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.  
3) DAYLIGHT OPENING (DLO) FORMULAS:  
WIDTH: PANEL WIDTH - 8-9/16"  
HEIGHT: PANEL HEIGHT - 8-9/16"  
4) PANEL HEIGHT = FRAME HEIGHT - 2.5"

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Revised By:	Date:	Revision:

Description:  
ANCHOR LOCATIONS (3 TRACKS)

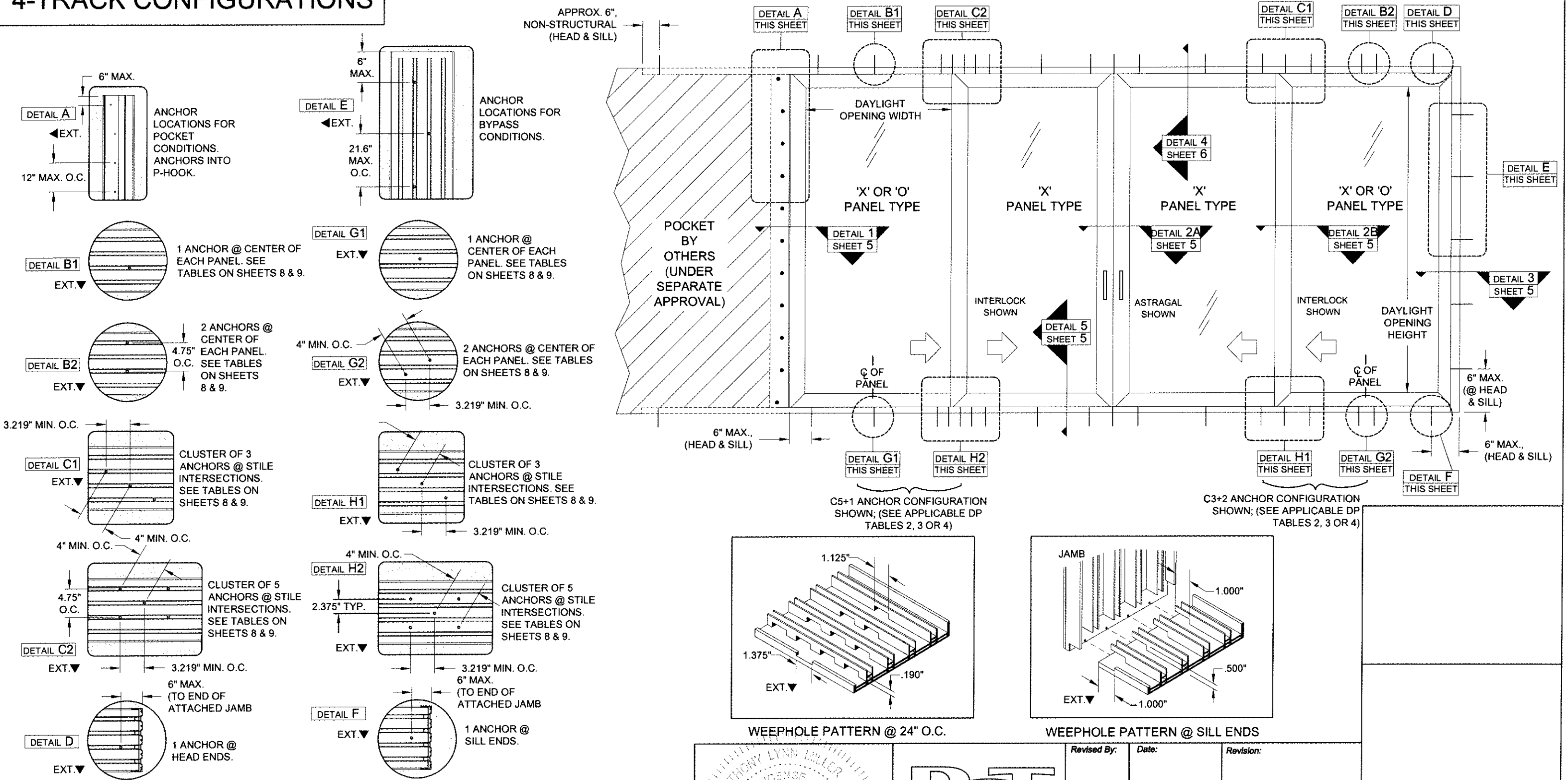
Title:  
VINYL SGD INSTALLATION GUIDELINES

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
470	NTS	3 OF 13	FLA-SGD470-01	

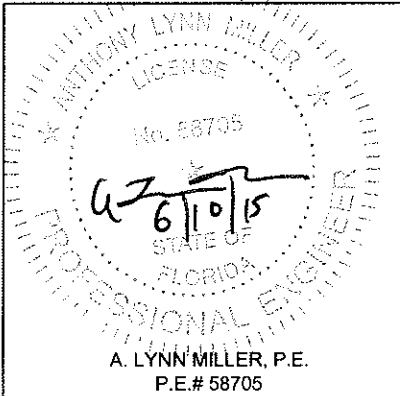
Drawn By:  
J ROSOWSKI

Date:  
11/18/10

4-TRACK CONFIGURATIONS



NOTES:  
1) FOR CONFIGURATIONS, SEE SHEET 12.  
2) FOR ANCHOR EDGE DISTANCE AND EMBEDMENT, SEE TABLE 1 SHEET 6.  
3) DAYLIGHT OPENING (DLO) FORMULAS:  
WIDTH: PANEL WIDTH - 8-9/16"  
HEIGHT: PANEL HEIGHT - 8-9/16"  
4) PANEL HEIGHT = FRAME HEIGHT - 2.5"



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Revised By:	Date:	Revision:

Description: ANCHOR LOCATIONS (4 TRACKS)

Title: VINYL SGD INSTALLATION GUIDELINES

Series/Model:	Scale:	Sheet:	Drawing No.	Rev:
470	NTS	4 OF 13	FLA-SGD470-01	

Drawn By: J ROSOWSKI

Date: 11/18/10

**DETAIL 1**  
INTO MASONRY

**DETAIL 2A**  
ASTRAGAL

**DETAIL 2B**  
INTERLOCK

**DETAIL 3**  
INTO MASONRY  
1X BUCKSTRIP

1X OR 2X WOOD  
BUCKSTRIP, SEE  
NOTE 4, SHEET 1

CONCRETE/CMU  
PER ANCHOR  
REQUIREMENT

EMBEDMENT

TYP. ANCHOR TYPE, EMBEDMENT  
AND EDGE DISTANCE PER  
SUBSTRATE, SEE TABLE 1, SHEET 6

EDGE  
DISTANCE

1/4" MAX.

TYP. ANCHOR TYPE, EMBEDMENT  
AND EDGE DISTANCE PER  
SUBSTRATE, SEE TABLE 1, SHEET 6

EDGE  
DISTANCE

2-3/8" ROW  
SPACING

EMBED-  
MENT

CONCRETE/CMU  
PER ANCHOR  
REQUIREMENT

1/4" MAX.

CONCRETE/CMU  
PER ANCHOR  
REQUIREMENT

TYP. ANCHOR TYPE, EMBEDMENT AND EDGE  
DISTANCE PER SUBSTRATE, SEE TABLE 1, SHEET 6

EDGE  
DISTANCE

NON-STRUCTURAL  
ANCHOR

20 OPTIONAL

EMBED-  
MENT

1/4"  
MAX.

21

24

35

37

28/29

POCKET  
P-HOOK

PANEL WIDTH

LOCKSTILE

10 ASTRAGAL

EXTERIOR

DOOR FRAME WIDTH

PANEL WIDTH

DOOR FRAME WIDTH

INTERLOCK

BOX SCREEN

28/29

36 ASTRAGAL ADD-ON

30 ASTRAGAL ADD-ON REINF.

#10 X 2-1/2" SMS  
REINFORCEMENT SCREW; 5  
PER ASTRAGAL,  
EQUALLY-SPACED AND 7"  
FROM ENDS (FACTORY  
INSTALLED).

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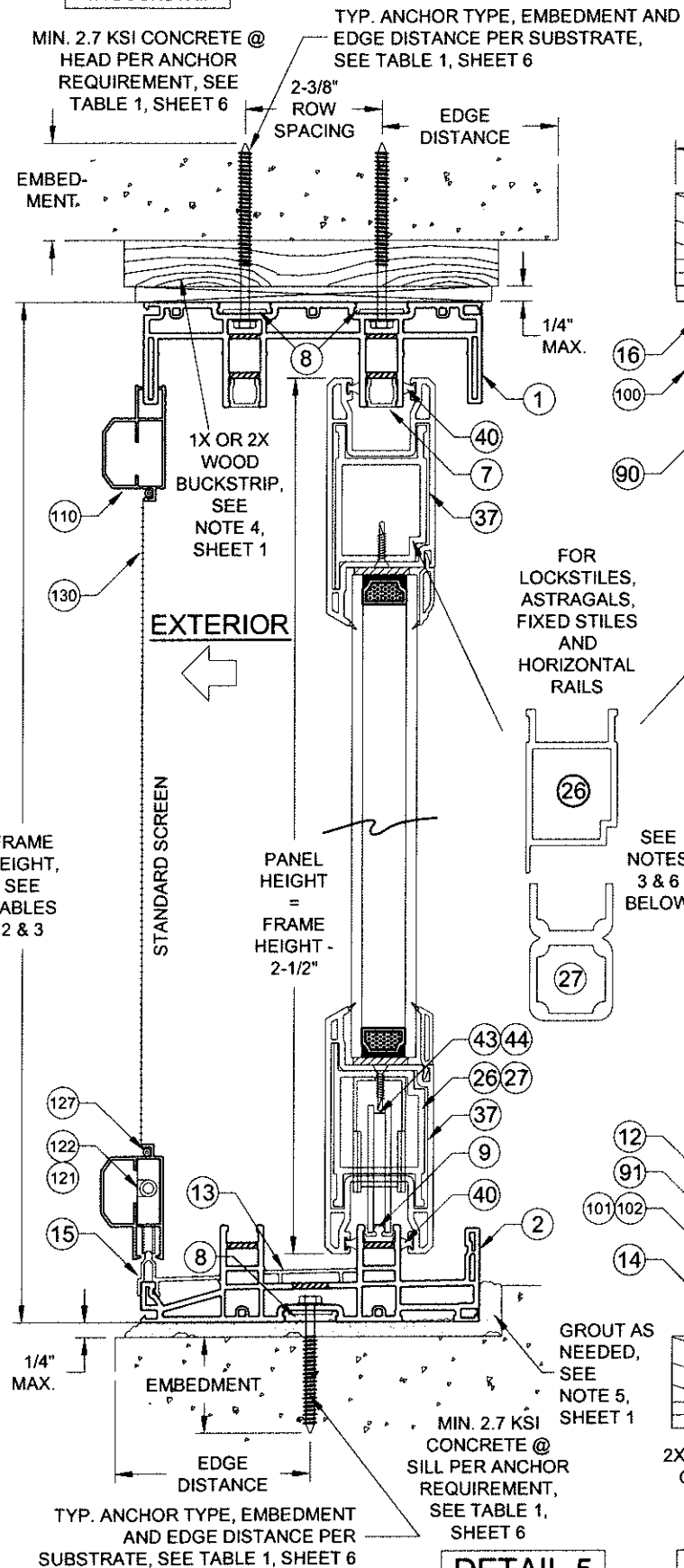
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# DETAIL 4

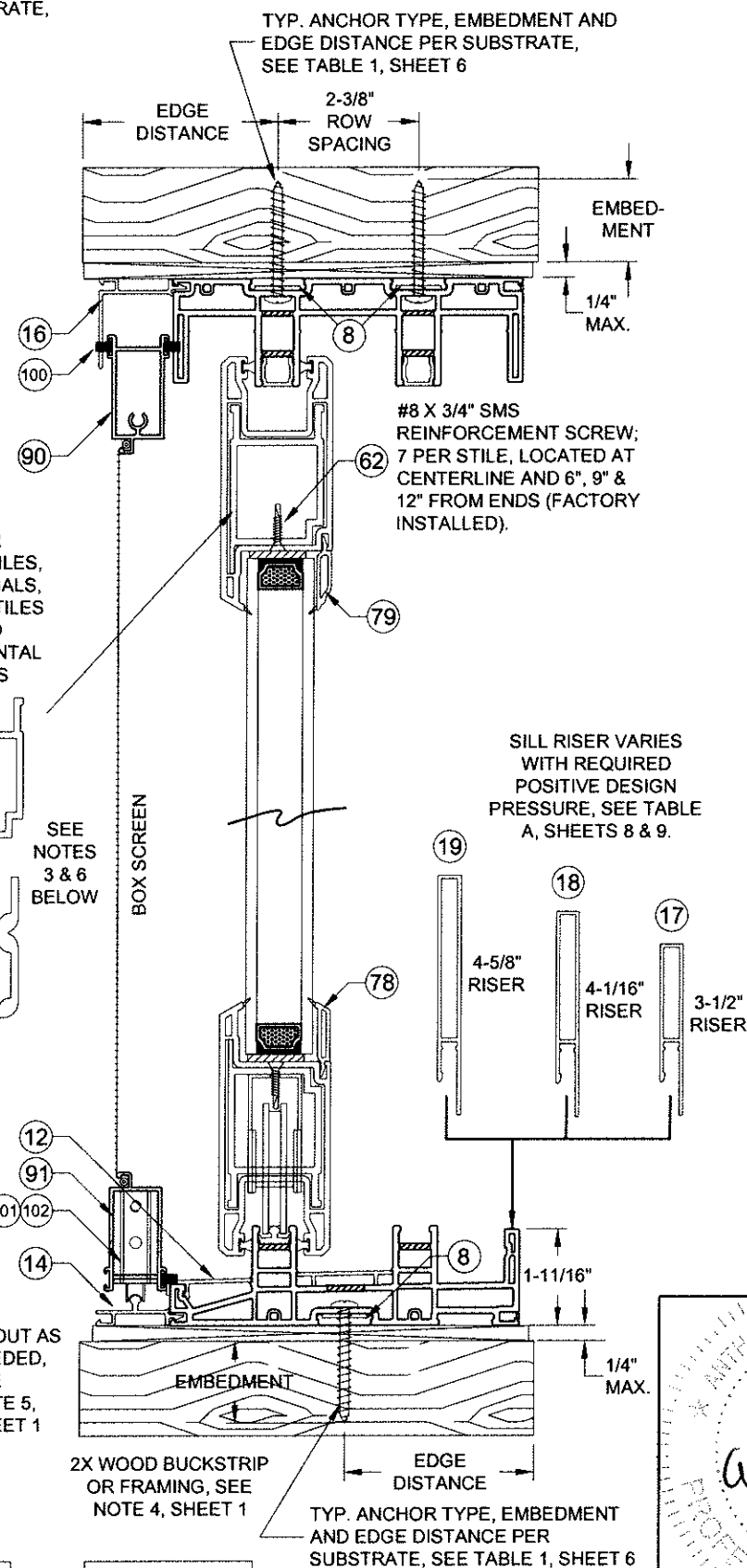
INTO MASONRY  
1X BUCKSTRIP



DETAIL 5  
INTO MASONRY

# DETAIL 4

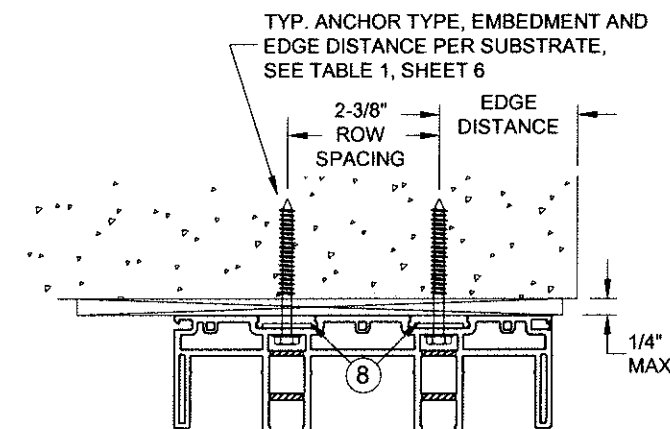
INTO WOOD



DETAIL 5  
INTO WOOD

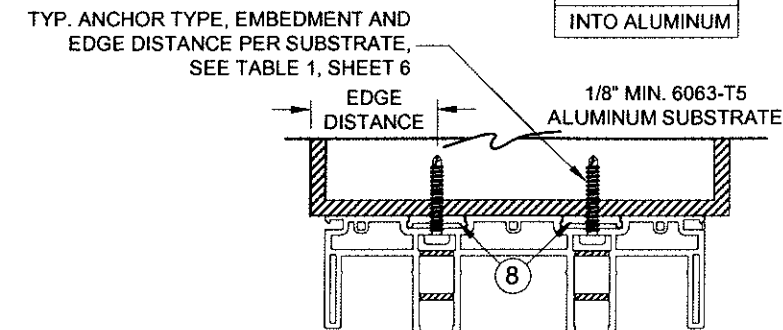
# DETAIL 4

INTO MASONRY



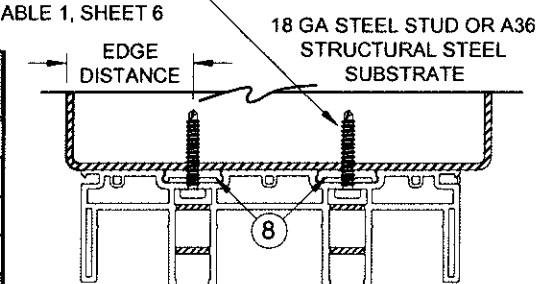
# DETAIL 4

INTO ALUMINUM



METAL SUBSTRATES TO BE PROPERLY DESIGNED TO TRANSFER LOAD IMPOSED ON THEM

TYP. ANCHOR TYPE, EMBEDMENT AND  
EDGE DISTANCE PER SUBSTRATE,  
SEE TABLE 1, SHEET 6



DETAIL 4  
INTO STEEL

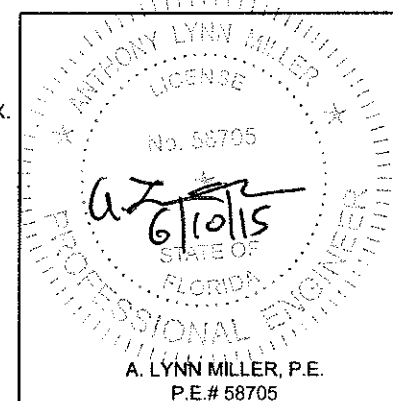
METAL SUBSTRATE DETAILS SHOWN FOR HEAD  
(SIMILAR DETAILS APPLY TO FRAME JAMB AND SILL,  
EXCEPT POCKET JAMB)

TABLE 1, ANCHOR TYPES:

Type	Substrate	Anchor	Minimum Embedment	Min. Edge Distance
A	P.T. Southern Pine (SG = .55)	#12 Sheet Metal Screw (G5)	1-3/8"	3/4"
		1/4" Elco UltraCon	1-1/2"	1-3/4"
		1/4" Elco Crete-Flex SS4	1-1/2"	1-3/4"
	Aluminum, 6063-T5 min.	#12 Sheet Metal Screw (G5)	0.125"	1/2"
	Steel Stud, Gr. 33 min.	#12 Sheet Metal Screw (G5)	18ga (0.0451")	1/2"
	A36 Steel	#12 Sheet Metal Screw (G5)	18ga (0.0451")	1/2"
B	P.T. Southern Pine (SG = .55)	#12 Wood Screw (G5)	1-3/8"	3/4"
C	Concrete (min. 2.7 ksi)	1/4" Elco UltraCon	1-3/8"	1"
	Concrete (min. 3.35 ksi)	1/4" Elco Crete-Flex SS4	1-3/4"	1"
	Ungrouted CMU, Jamb Only (ASTM C-90)	1/4" Elco UltraCon	1-1/4"	1"
		1/4" Elco Crete-Flex SS4	1-1/4"	1-3/4"
D	Concrete (min. 2.7 ksi)	1/4" Elco UltraCon	1-3/8"	2-1/2"
	Concrete (min. 3.35 ksi)	1/4" Elco Crete-Flex SS4	1-3/4"	2-1/2"
	Ungrouted CMU, Jamb Only (ASTM C-90)	1/4" Elco UltraCon	1-1/4"	2-1/2"
		1/4" Elco Crete-Flex SS4	1-1/4"	2-1/2"

## NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
- 3) SEE TABLES 2 & 3 FOR REINFORCEMENT REQUIREMENTS.
- 4) CONTINUOUS ANCHOR PLATE, ITEM #8, 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.

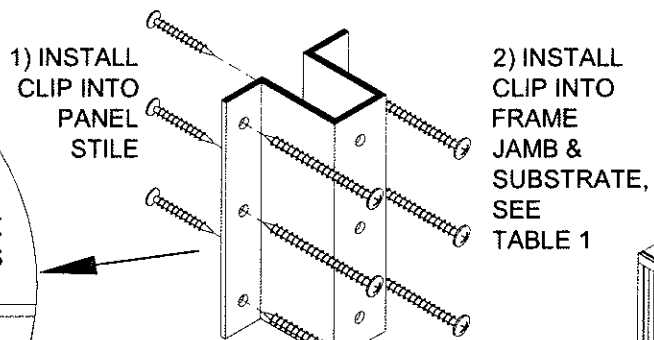
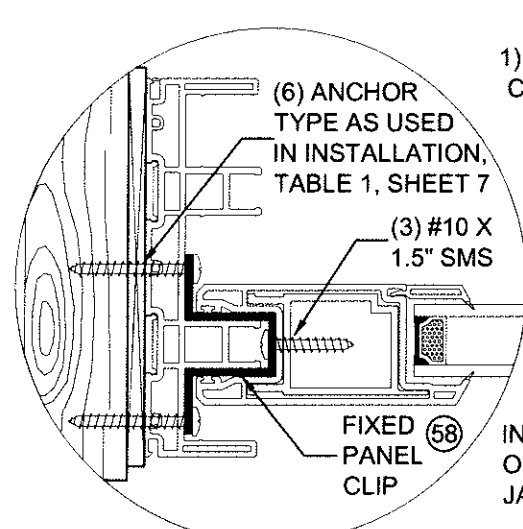


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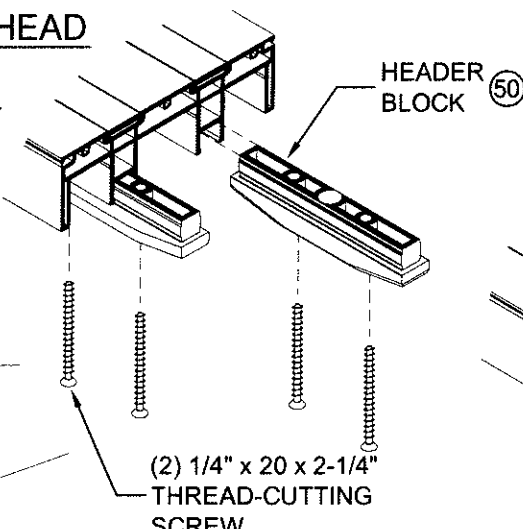
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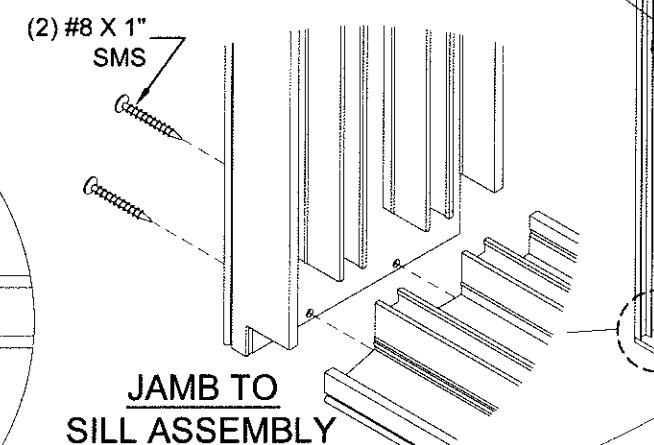
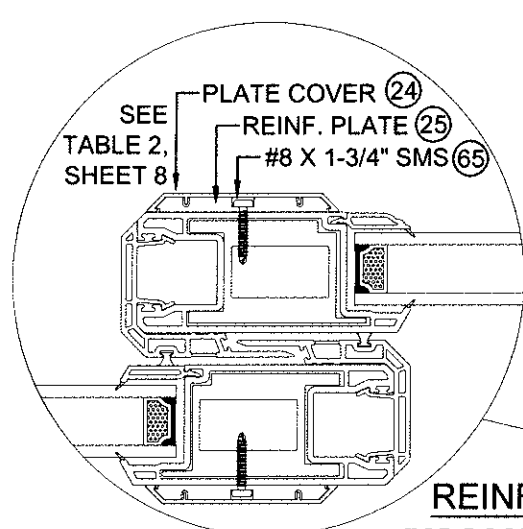
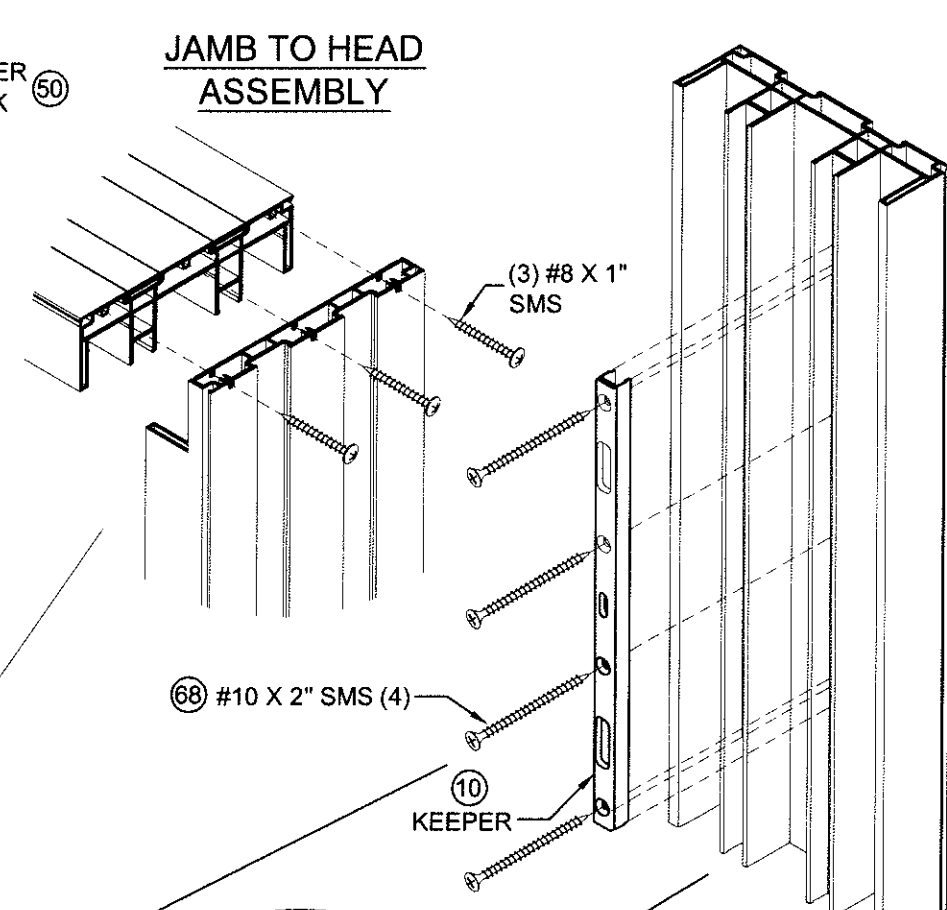
Description: VERTICAL INSTALLATION DETAILS		Drawn By: J ROSOWSKI	
Title: VINYL SGD INSTALLATION GUIDELINES		Date: 11/18/10	
Series/Model: 470	Scale: NTS	Sheet: 6 OF 13	Drawing No. FLA-SGD470-01
Rev:			



**HEADER BLOCK TO HEAD ATTACHMENT**  
 INSTALL ONE BLOCK AT EACH INTERLOCK. AT ASTRAGAL, INSTALL ONE BLOCK THAT SPANS BOTH PANELS.

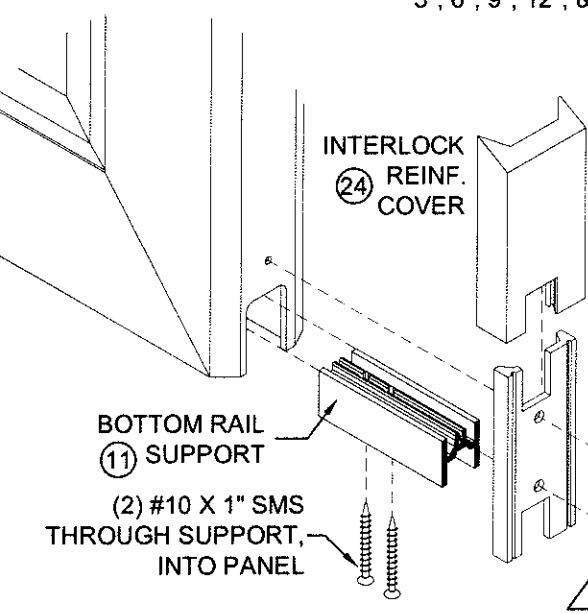


**JAMB TO HEAD ASSEMBLY**



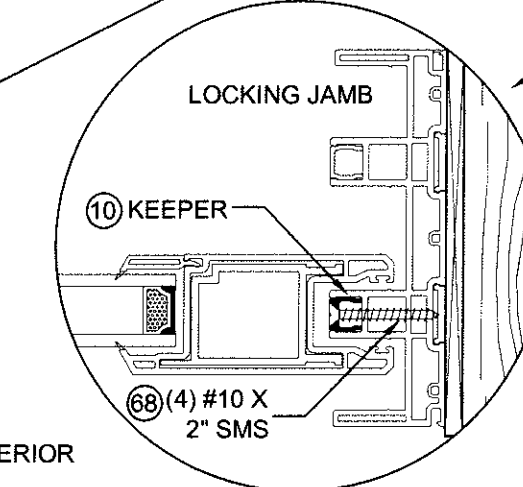
**REINFORCEMENT PLATE**  
 FOR DOORS OVER 96". 10 ANCHORS @ 3", 6", 9", 12", & 46.5" FROM EACH END

**NOTES**  
 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.  
 2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.  
 3) SEE TABLES 2 & 3 FOR REINFORCEMENT REQUIREMENTS.  
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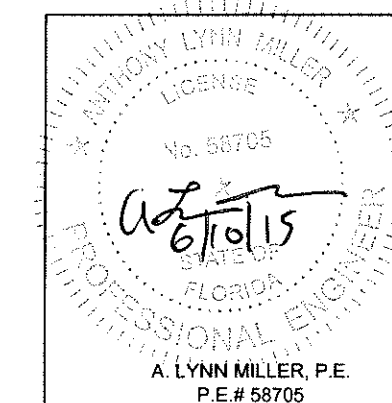


**INTERLOCK SILL RETAINER CLIP ATTACHMENT**  
 INSTALL ONE ASSEMBLY AT EACH INTERLOCK

**PANEL ASSEMBLY**  
 ALL PANEL CORNERS WELDED, NO ASSEMBLY FASTENERS



**KEEPER TO JAMB ATTACHMENT**



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Revised By:	Date:	Revision:
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Description:		Drawn By:
ACCESSORIES INSTALLATION DETAILS		J ROSOWSKI
Title:		Date:
VINYL SGD INSTALLATION GUIDELINES		11/18/10
Series/Model:	Scale:	Sheet:
470	NTS	7 OF 13
Drawing No.		Rev:
FLA-SGD470-01		



TABLE 2:

Anchor and Substrate Type. See Table 1, Sheet 6		Series 470 Anchor Quantities and Design Pressures using Heavy Duty Reinforcement																			
		FRAME HEIGHT (IN)																			
		80				84				96				108				120			
NOM. PANEL WIDTH (IN)	FRAME SIDE	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
24	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
30	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
36	Head & Sill	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C5+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1	C5+1	C5+1	C5+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	6	5	6	6	6	6	6	6	6	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
42	Head & Sill	C5+2	C3+2	C3+1	C3+1	C5+2	C5+2	C3+1	C3+1	C5+2	C5+2	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1	C5+1	C5+1	C5+1	C3+1
	Jamb	5	5	6	5	5	5	6	5	6	5	7	5	6	6	6	6	6	6	7	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
48	Head & Sill	C5+2	C5+2	C3+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+1	C3+1	C5+2	C5+2	C5+1	C3+1
	Jamb	6	5	7	5	6	5	7	5	7	6	8	5	6	6	7	6	7	6	8	6
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11	11
	Design Pressure	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+80.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
54	Head & Sill	C3+2	C3+2	C3+2	C3+1	C5+2	C3+2	C3+2	C3+1	C5+2	C5+2	C3+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+1	C3+1
	Jamb	5	5	6	5	5	5	6	5	6	5	7	5	6	5	7	5	6	5	7	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
60	Head & Sill	C3+2	C3+2	C3+2	C3+1	C5+2	C3+2	C3+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1	C5+2	C5+2	C5+2	C3+1
	Jamb	5	5	6	5	5	5	6	5	6	5	7	5	6	5	7	5	6	5	7	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0

Reinforcements Required, (See Parts on Sheet 10)					
Interlock	Lock/Fixed Stile	Astragal	Astragal Addon	Top/Bottom Rail	Plate (Part# 24, 25)
Part# 29	Part# 26	Part# 26	Part# 30	Part# 26	Required for Heights over 96"

TABLE A:

Water-Limited (+) Design Pressure		
Nominal Sill Height	Actual Sill Height	Max. (+) DP Allowed
1-11/16"	1.688"	Overhang Req'd (Fig A)
3-1/2"	3.464"	+60.0 psf
4-1/16"	4.037"	+80.0 psf
4-5/8"	4.614"	+100.0 psf

THE LESSER VALUE OF TABLE A AND TABLE 2 DETERMINES THE WATER LIMITED (+) DP.

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.
- 3) SEE TABLES 2 & 3 FOR REINFORCEMENT REQUIREMENTS.
- 4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.
- 5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.
- 6) SEE SHEET 2 FOR APPLICABLE DLO PER PANEL SIZE.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C3+1, 3 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE 1, SHEET 6, FOR COMPLETE ANCHOR LIMITATIONS.

TABLE KEY:

NOM. PANEL WIDTH (IN)	FRAME SIDE	A
24	Head & Sill	C3+1
	Jamb	5
	P-hook	8
	Design Pressure	+80.0

$$\text{NOM. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$$

THE MAXIMUM NEGATIVE DESIGN PRESSURE AT THESE ANCHOR QUANTITIES.

THE MAXIMUM POSITIVE DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM DP FOR THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE A, THIS SHEET.

TOTAL # OF ANCHORS THROUGH THE P-HOOK.

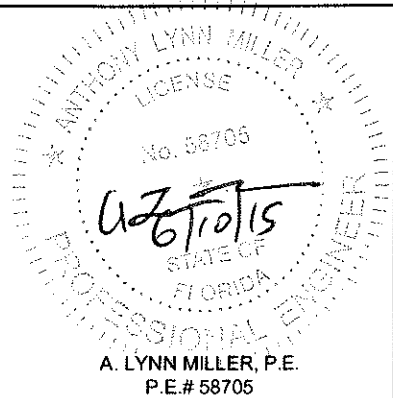
TOTAL # OF ANCHORS THROUGH THE JAMB.

FIGURE A:

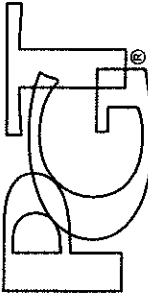
OH LENGTH

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 IS EXEMPTED FROM WATER INFILTRATION. THE OVERHANG RATIO SHALL BE CALCULATED BY THE FOLLOWING EQUATION:

$$\text{OH RATIO} = \text{OH LENGTH} / \text{OH HEIGHT}$$



Drawn By:	J ROSOWSKI	Date:	11/18/10	Rev:	
Revised By:		Date:			
Revised By:		Date:			
Description:	DESIGN PRESSURE TABLE 2				
Title:	VINYL SGD INSTALLATION GUIDELINES				
Scale:	NTS	Sheet:	8 OF 13	Drawing No.	FLA-SGD470-01
Series/Model:	470				



1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274  
CERT. OF AUTH. #29296

TABLE 3:

Anchor and Substrate Type. See Table 1, Sheet 6		Series 470 Anchor Quantities and Design Pressures using Standard or Composite Reinforcement											
		FRAME HEIGHT (IN)											
		80				84				96			
NOM. PANEL WIDTH (IN)	FRAME SIDE	A	B	C	D	A	B	C	D	A	B	C	D
24	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
30	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
36	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
42	Head & Sill	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C3+1	C5+1	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	5	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0
48	Head & Sill	C3+2	C3+1	C3+1	C3+1	C3+2	C3+1	C3+1	C3+1	C5+2	C3+1	C3+1	C3+1
	Jamb	5	5	5	5	5	5	5	5	5	5	6	5
	P-hook	8	8	8	8	8	8	8	8	9	9	9	9
	Design Pressure	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0	+60.0

	Reinforcements Required, (See Parts on Sheet 10)				
	Interlock	Lock/Fixed Stile	Astragal	Astragal Addon	Top/Bottom Rail
Standard	Part# 28	Part# 26	Part# 26	Part# 30	Part# 26
Thermal-Option	Part# 28	Part# 27	Part# 27	Part# 30	Part# 27

NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.  
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.  
3) SEE TABLES 2 & 3 FOR REINFORCEMENT REQUIREMENTS.  
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.  
5) PANEL WIDTH DOES NOT INCLUDE INTERLOCK OR ASTRAGAL ADD-ON.  
6) SEE SHEET 2 FOR APPLICABLE DLO PER PANEL SIZE.

TABLE A:

Water-Limited (+) Design Pressure		
Nominal Sill Height	Actual Sill Height	Max. (+) DP Allowed
1-11/16"	1.688"	Overhang Req'd (Fig A)
3-1/2"	3.464"	+60.0 psf
4-1/16"	4.037"	+80.0 psf
4-5/8"	4.614"	+100.0 psf

THE LESSER VALUE OF TABLE A AND TABLE 3 DETERMINES THE WATER LIMITED (+) DP.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C3+1, 3 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE 1, SHEET 6, FOR COMPLETE ANCHOR LIMITATIONS.

TABLE KEY:

NOM. PANEL WIDTH (IN)	FRAME SIDE	A
24	Head & Sill	C3+1
	Jamb	5
	P-hook	8
	Design Pressure	+80.0

NOM. PANEL WIDTH = FRAME WIDTH / # OF PANELS

THE MAXIMUM NEGATIVE DESIGN PRESSURE AT THESE ANCHOR QUANTITIES.

THE MAXIMUM POSITIVE DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM DP FOR THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE A, THIS SHEET.

TOTAL # OF ANCHORS THROUGH THE P-HOOK.

TOTAL # OF ANCHORS THROUGH THE JAMB.

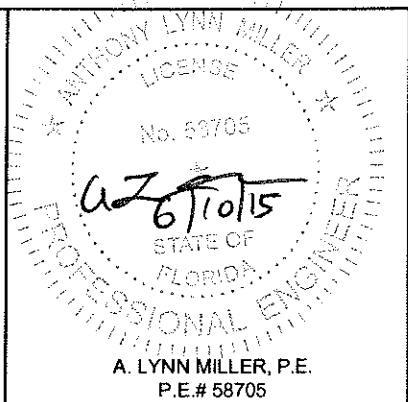
FIGURE A:

OH LENGTH

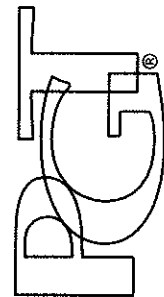
OH HEIGHT

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) RATIO IS EQUAL TO OR MORE THAN 1 IS EXEMPTED FROM WATER INFILTRATION. THE OVERHANG RATIO SHALL BE CALCULATED BY THE FOLLOWING EQUATION:

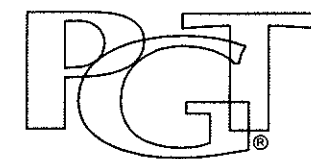
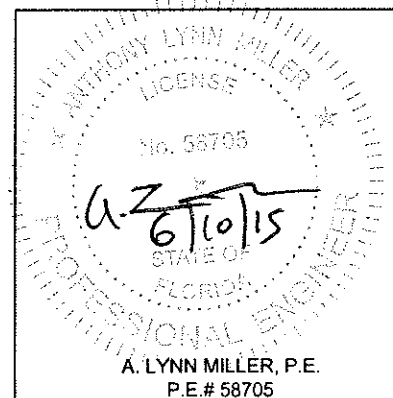
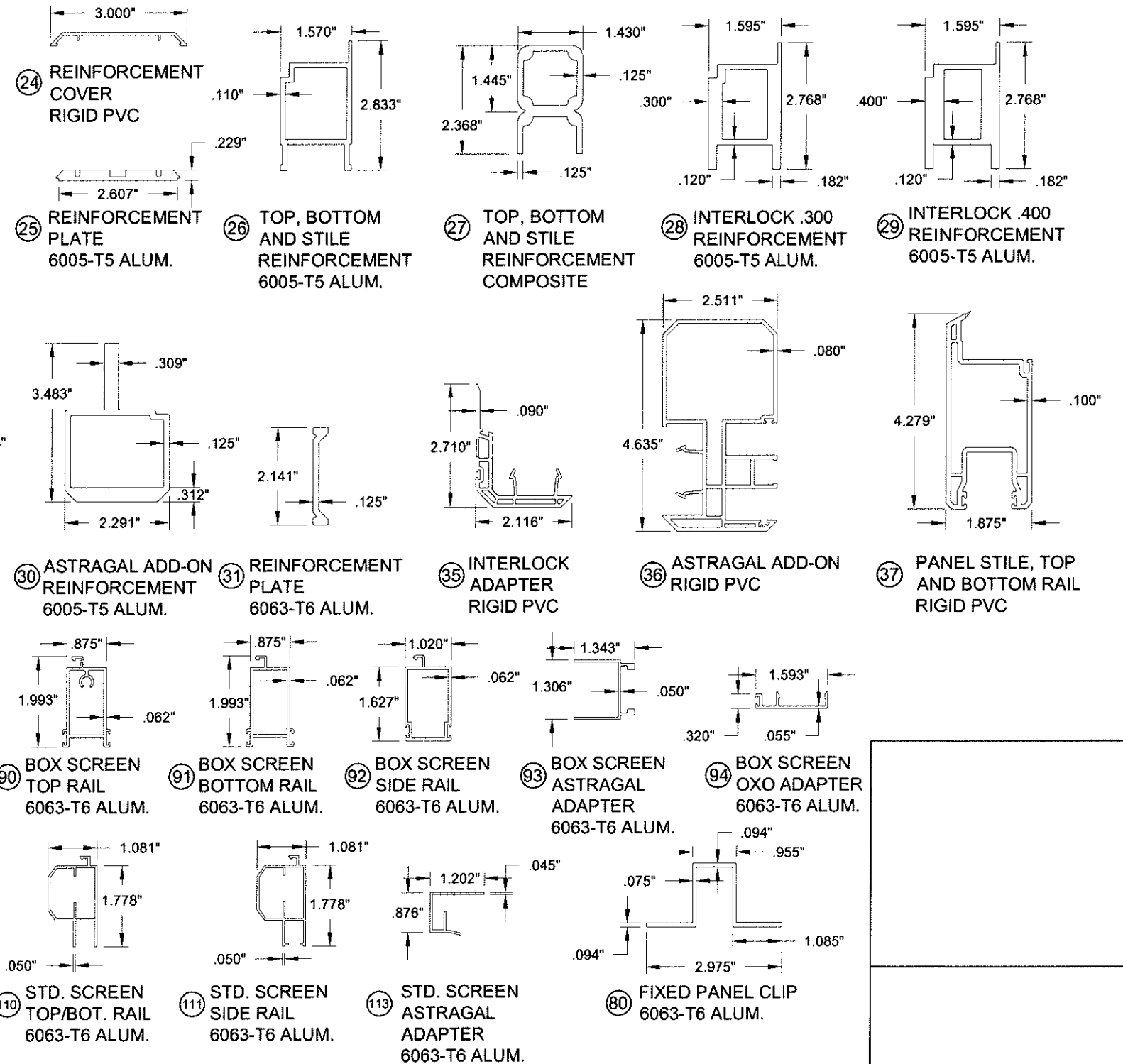
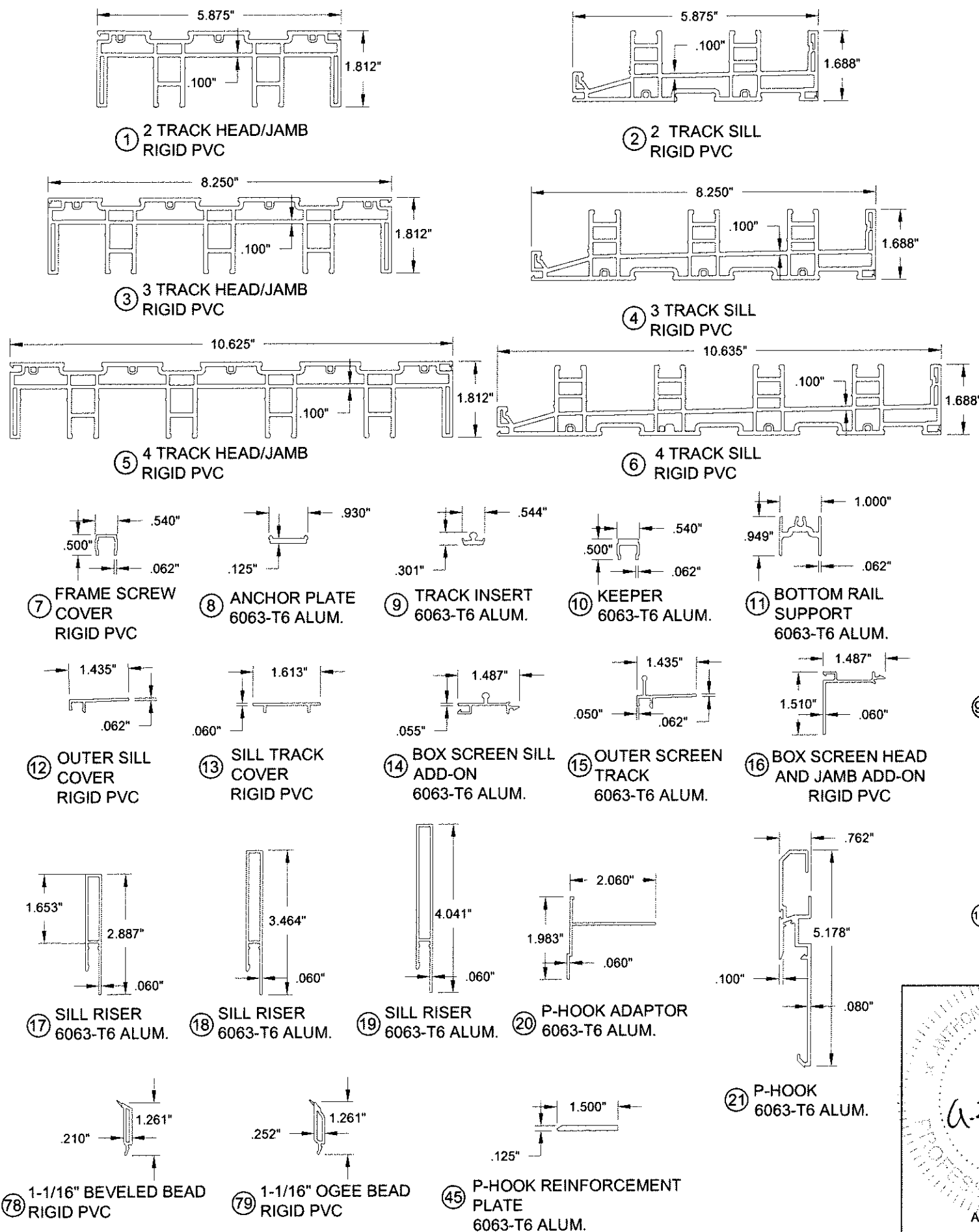
OH RATIO = OH LENGTH/OH HEIGHT



Drawn By: J ROSOWSKI	Date: 11/18/10	Rev:
Revision:	Revision:	Revision:
Revised By:	Revised By:	Revised By:
Description: DESIGN PRESSURE TABLES 3 & 4		
Title: VINYL SGD INSTALLATION GUIDELINES		
Scale: NTS	Sheet: 9 OF 13	Drawing No. FLA-SGD470-01
Series/Model: 470		



1070 TECHNOLOGY DRIVE  
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1070 TECHNOLOGY DRIVE  
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NOKOMIS, FL 34274

CERT. OF AUTH. #29296

Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: <b>PART DETAILS</b>		
Title: <b>VINYL SGD INSTALLATION GUIDELINES</b>		
Series/Model: <b>470</b>	Scale: <b>NTS</b>	Sheet: <b>10 OF 13</b>
Drawing No. <b>FLA-SGD470-01</b>		Date: <b>11/18/10</b>
Rev:		Rev:

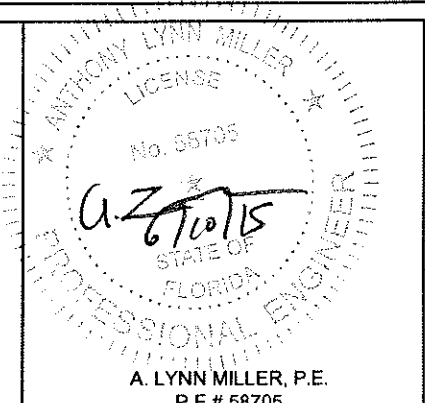
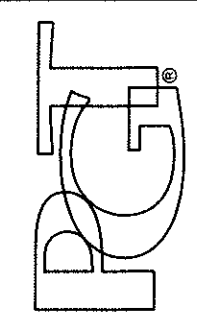
Drawn By:  
**J ROSOWSKI**

Part #	PGT. #	Description
1	619001	2-Track Head/Jamb
2	619002	2-Track Sill
3	619025	3-Track Head/Jamb
4	619026	3-Track Sill
5	619027	4-Track Head/Jamb
6	619028	4-Track Sill
7	619009	Frame Screw Cover
8	619031	Anchor Plate
9	619007	Track Insert
10	619029M	Aluminum Keeper
11	619036	Bottom Rail Support
12	619006	Outer Sill Cover
13	619011	Sill Track Cover
14	619039	Box Screen Sill Add-on
15	619012	Outer Screen Track (Standard Screen)
16	619038	Box Screen Head and Jamb Add-on
17	619022A	Sill Riser - (DP60)
18	619023A	Sill Riser - (DP80)
19	619024A	Sill Riser - (DP100)
20	619032	P-Hook Adapter
21	619020	P-Hook
24	619014	Reinforcement Cover
25	619030	Reinforcement Plate
26	619017M	Top, Bottom and Stile Reinf. (Alum)
27	19046	Top, Bottom and Stile Reinf. (Comp.)
28	619018M	Interlock .300 Reinforcement
29	619013M	Interlock .400 Reinforcement
30	619019M	Astragal Reinforcement
31	619035	Reinforcement Plate
35	619005	Interlock Adaptor
36	619008	Astragal Add-on
37	619004	Panel Stile, Top/Bottom Rail
40	718609	.187 x .280 Finseal (Stile)
41	71695K	1-1/2" x 1" x 3/4" Fin Seal Dust Plug
42	419041	Interlock Clip Cover
43	78153X	Tandem S.S. Roller Assy.
44	78153N	Tandem Nylon Roller Assy.
45	619043	P-hook Reinforcement plate
46	710X125FPSDX	#10 x 1-1/4" FI PH SMS

Part #	PGT. #	Description
50	419042	Frame Header Block
51	48052	Roller Adj. Hole Plug
52	41735	SGD Panel Come-along
53	41736	SGD Panel Come-along Cover
55	71696	Dust Plug
56	44385	4 Hole Bumper Stop
58	619037M	Fixed Panel Clip
59	71696G	Sill Plug
61	78X38PPTX	#8 x 3/8" Ph. Pn. TEK Screw
62	78X34PPSDAX	#8 x 3/4" FI. Ph. TEK - S.S.
63	781PSTX	#8 x 1" Quad - S.S..
64	781PQX	#8 x 1" Pn Quad - S.S.
65	78X114PHPT410X	#8 x 1-1/4" Ph. Pn. TEK
66	710X1PPSDAXX	#10 x 1" Ph. Pn. TEK - S.S.
67	710X115PPX	#10 x 1-1/2" Ph. Pn Keeper Screws
68	710X2PPX	#10 x 2" Ph. FI S.S. Screw
69	710X212PPDAX	#10 x 2-1/2" Pn Ph. Tek S.S.
70	712X112PP	#12 x 1-1/2" Ph. Pn. A
71		GE 7700 Silicone
72		Dow Corning 995 Silicone
73	71726K	Neoprene Setting Block 1"x4"x1/16"
76		Silicone-Foam Super Spacer - 11/16"
77		Hot-melt Butyl
78	619010	1-1/16" Beveled Bead
79	619015	1-1/16" Ogee Bead
82	62139	Ogee Vinyl Muntin
83	63609	Insulated Glass Muntin - Horizontal
84	4CONN	I.G. Intersection
85	7558K	I.G. Gridlock Clip - 7/16"
86	7560K	I.G. Gridlock Clip - 5/16"

Part #	PGT. #	Description
Box Screen		
90	612256	Screen Top Rail
91	612257	Screen Bottom Rail
92	612258	Screen Side Rail - Lockstile
93	64344	Screen Astragal
94	617349	OXO Screen Astragal Adapter
95	64428	Screen Double Interlock
96	617347A	Screen Bug Flap
97	41818K	Screen Keeper Spacer Set
98	720X1X	1/4-20 x 1" S.S.
99	720X112X	1/4-20 x 1-1/2" S.S.
100	71793G	Wstp. .270" x .150" - Fin Seal
101	7SRAZ	Standard Roller
102	7SRAX	Standard Roller - S.S.
103	7LOCKWGS	Screen Lockset
104	41818K	Screen Lock Keeper Spacers
105	7SDKEEP	Screen Lock Keeper
Standard Screen		
110	612033	Screen Frame - Top/Bottom Rail
111	612026A	Screen Frame - Side Rail (Latch)
112	612033	Screen Frame - Side Rail
113	617363	OXO Screen Astragal Adapter
114	64853K	Vinyl Astragal
115	617356	Screen Sill Adapter
116	6FP95K	Bug Flap
117	7R42DK	Rivet
118	74X1PA	#4 x 1" Ph. Pn. SMS
119	78X112PSATS	#8 x 1-1/2" Ph. Pn. SMS A Z
120	41703N	Screw Boss Bushing
121	712027	Comer Key Wheel Assy. (Standard)
122	712027SS	Comer Key Wheel Assy. (S.S. w/bearing)
123	41805K	Screen Handle
124	41806	Screen Handle Slide
125	704/6B	Screen Latch Assy.
126	7SNKPN	Screen Keeper
127	61693K	Serrated Screen Spline - .145"
128	61692K	Screen Spline - .165"
129	61694K	Screen Spline - .150"
130	61816C20	Screen Cloth

NOTES  
1) SEE SHEET 10 FOR MATERIAL TYPE AND DETAILS.

	
A. LYNN MILLER, P.E. P.E.# 58705	
Drawn By: <b>J ROSOWSKI</b>	Date: <b>11/18/10</b>
Revised By:	Revised By:
Date:	Date:
Revision:	Revision:
Description: <b>BILL OF MATERIALS</b>	
Title: <b>VINYL SGD INSTALLATION GUIDELINES</b>	
Scale: <b>NTS</b>	Sheet: <b>11 OF 13</b>
Series/Model: <b>470</b>	Drawing No. <b>FLA-SGD470-01</b>
	
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	
CERT. OF AUTH. #29296	

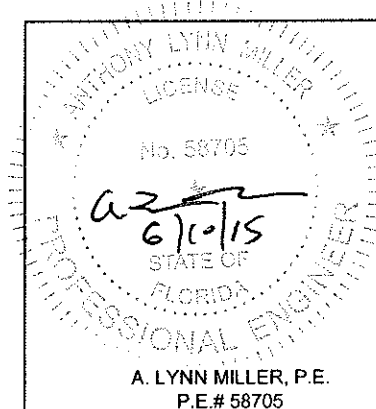
TYPE	STANDARD	REVERSE
2P2T	XX	XX
2P2T	XO	OX
3P2T	OXO	OXO
3P2T	XXX	NOT AVAILABLE
3P3T	XXX	OXX
3P3T	XXO	XXX
4P2T	OXXO	NOT AVAILABLE
4P2T	XXXX	NOT AVAILABLE
4P4T	XXXX	XXXX
4P4T	XXO	OXXX
5P3T	OXXO	OXXO
5P3T	XXXX	XXXX

TYPE	LEFT HAND POCKETS	LEFT HAND POCKETS
1P2T	X	X
2P2T	XX	XX
3P3T	XXX	XXX
4P4T	XXXX	XXXX
2P2T	XX	XX
4P2T	XXXX	XXXX
6P3T	XXXXXX	XXXXXX
8P4T	XXXXXXXX	XXXXXXXX

TYPE	
6P3T	OXXXXO
6P3T	XXXXXX
8P4T	OXXXXXXO
8P4T	XXXXXXXX

NOTES  
1) MAXIMUM OF (8) EIGHT PANELS UP TO 96" FRAME HEIGHT.  
2) MAXIMUM OF (4) FOUR PANEL CONFIGURATION FOR FRAME HEIGHTS OVER 96" AND UP TO 120".  
3) MAXIMUM DOOR FRAME WIDTH (EXCLUDING POCKETS IF APPLICABLE) IS LIMITED TO 467-11/16".

↑  
INTERIOR  
EXTERIOR  
↓



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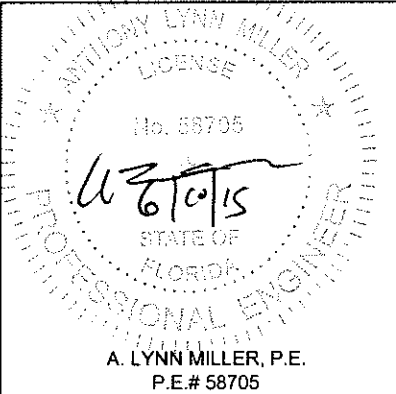
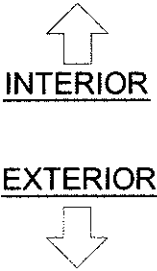
Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: SAMPLE CONFIGS AND PANEL NAMES		Drawn By: J ROSOWSKI
Title: VINYL SGD INSTALLATION GUIDELINES		Date: 11/18/10
Series/Model: 470	Scale: NTS	Sheet: 12 OF 13
Drawing No. FLA-SGD470-01		Rev:

P	SINGLE INTERLOCK		FIXED LOCKSTILE
R	FIXED LOCKSTILE		SINGLE INTERLOCK
T (BOX OUT)	ASTRAGAL OUT		FIXED LOCKSTILE
T (BOX IN)	ASTRAGAL IN		FIXED LOCKSTILE
S (BOX OUT)	FIXED LOCKSTILE		ASTRAGAL OUT
S (BOX IN)	FIXED LOCKSTILE		ASTRAGAL IN
L (BOX OUT)	SINGLE INTERLOCK		ASTRAGAL OUT
LR (BOX OUT)	ASTRAGAL OUT		SINGLE INTERLOCK
N (BOX IN)	ASTRAGAL IN		SINGLE INTERLOCK
C (BOX IN)	SINGLE INTERLOCK		ASTRAGAL IN
B	SINGLE INTERLOCK		SINGLE INTERLOCK
M	LOCKSTILE		SINGLE INTERLOCK

F	SINGLE INTERLOCK		SINGLE INTERLOCK
H	SINGLE INTERLOCK		SINGLE INTERLOCK
K	SINGLE INTERLOCK		LOCKSTILE
U (BOX OUT)	ASTRAGAL OUT		LOCKSTILE
U (BOX IN)	ASTRAGAL IN		LOCKSTILE
A	SINGLE INTERLOCK		LOCKSTILE
D	LOCKSTILE		SINGLE INTERLOCK
J (BOX OUT)	LOCKSTILE		ASTRAGAL OUT
J (BOX IN)	LOCKSTILE		ASTRAGAL IN

C	DOUBLE INTERLOCK		ASTRAGAL
M	LOCKSTILE		DOUBLE INTERLOCK
J	LOCKSTILE		ASTRAGAL
SD	SINGLE INTERLOCK		DOUBLE INTERLOCK
A	DOUBLE INTERLOCK		LOCKSTILE
U	ASTRAGAL		LOCKSTILE
DS	DOUBLE INTERLOCK		SINGLE INTERLOCK

NOTES  
1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.  
2) SEE SHEETS 2-4 FOR ANCHOR LOCATION & SPACING.  
3) SEE TABLES 2 & 3 FOR REINFORCEMENT REQUIREMENTS.  
4) CONTINUOUS ANCHOR PLATE, ITEM #8, IS REQUIRED AT ALL FRAME ANCHOR LOCATIONS.



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Revised By:	Date:	Revision:
Revised By:	Date:	Revision:
Description: PANEL TYPES		
Title: VINYL SGD INSTALLATION GUIDELINES		
Series/Model: 470	Scale: NTS	Sheet: 13 OF 13
Drawing No. FLA-SGD470-01		Date: 11/18/10
Rev:		

Drawn By:  
J ROSOWSKI