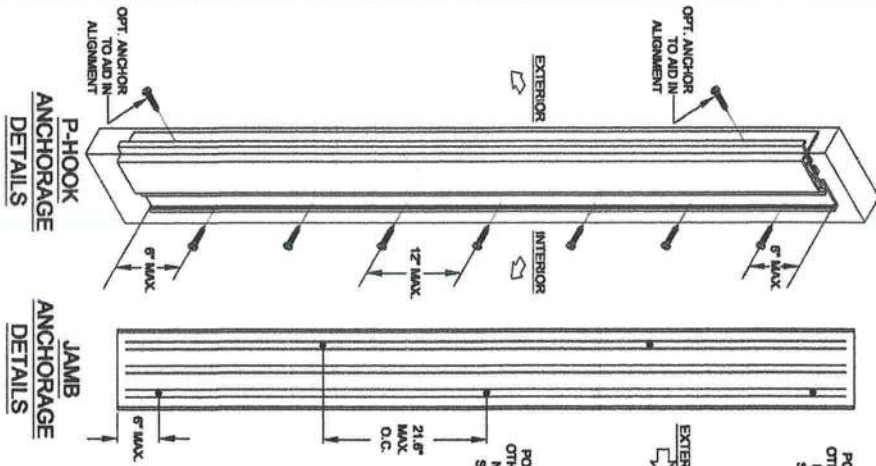


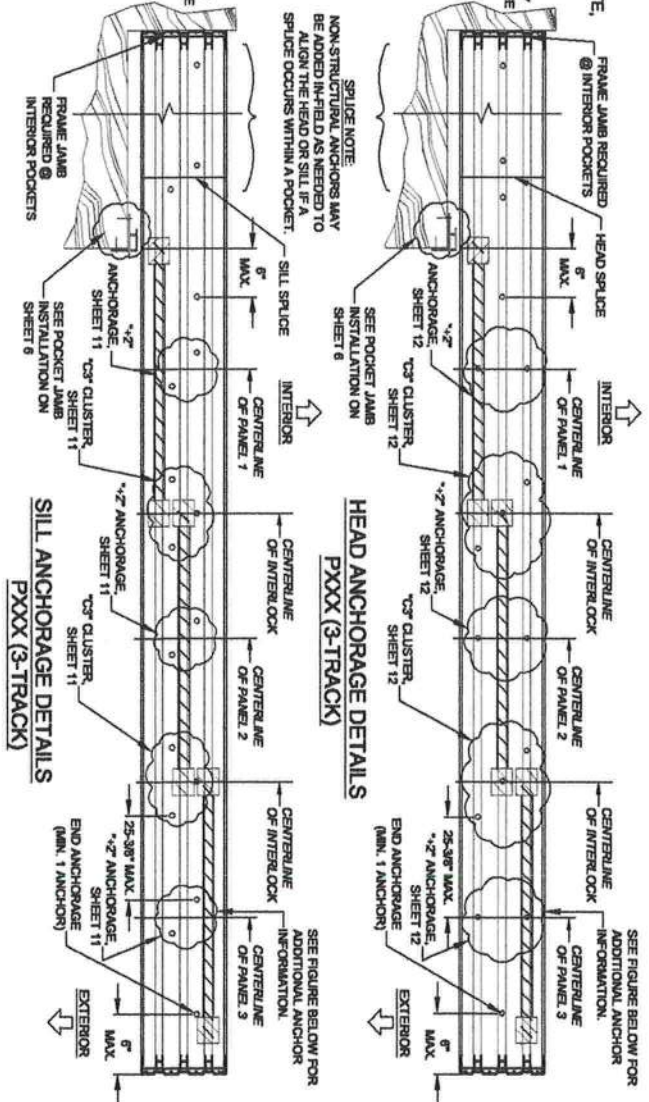
EXAMPLE:

3-PANEL, 3-TRACK, STRAIGHT CONFIGURATION - PXXX,
INTERIOR MOUNT POCKET, 48" X 84" NOM. PANELS,
LAMINATED IG GLAZING ANCHOR GROUP A IN WOOD SUBSTRATE,
PROJECT DESIGN PRESSURE REQUIRED: +48.2/-58.6 PSF



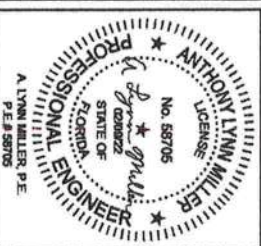
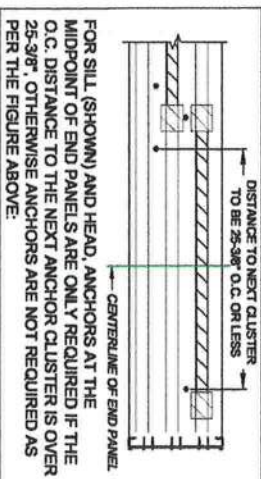
FOR PRODUCT REFERENCES, ALSO SEE:
A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT
LOCATIONS OF CROSS-SECTION DRAWINGS.
B) SHEET 10 FOR SPECIFIC GLAZING TYPES.
C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
E) SHEET 19 FOR INSTALLATION OF ADDITIONAL ACCESSORIES.
F) SHEET 21 FOR A BILL OF MATERIALS.

- 1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1 & 2 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +48.2/-58.6 AT A NOM. PANEL SIZE OF 48" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +60/-60 WHICH EXCEEDS THE PROJECT DESIGN REQUIREMENTS.
- 2) ANCHOR LOCATION DETAILS, CAN BE FOUND ON:
HEAD (CLUSTER ANCHORS): SHEET 12 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/STRAGAL HEAD (INTERMEDIATE ANCHORS): SHEET 12 FOR THE "V2" ANCHORS AT THE MIDSPAN OF EACH PANEL
SILL (CLUSTER ANCHORS): SHEET 11 FOR THE "C3" CLUSTER ANCHORS AT THE INTERLOCK/STRAGAL SILL (INTERMEDIATE ANCHORS): SHEET 11 FOR THE "V2" ANCHORS AT THE MIDSPAN OF EACH PANEL
JAMB: 5 ANCHORS, SHEET 13 FOR GEN. LAYOUT.
P-HOOK: 7 ANCHORS, SHEET 13 FOR GENERAL LAYOUT.
- 3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
HEAD & SILL: SHEET 4
JAMB: SHEET 3
P-HOOK: SHEET 6



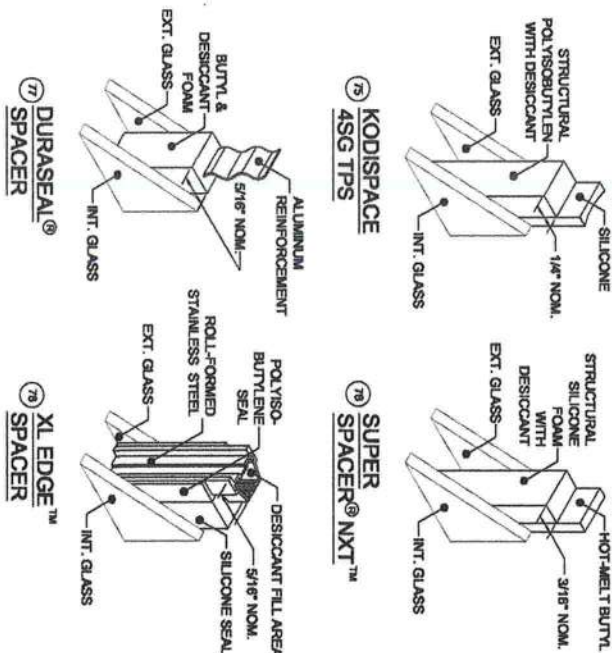
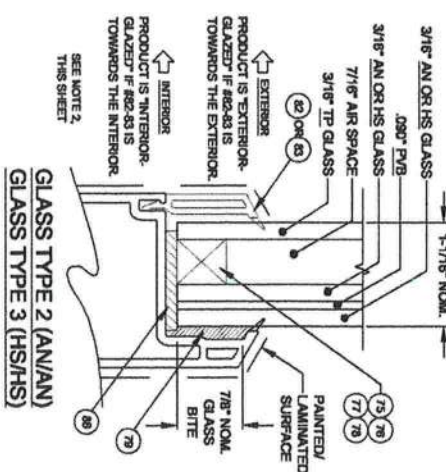
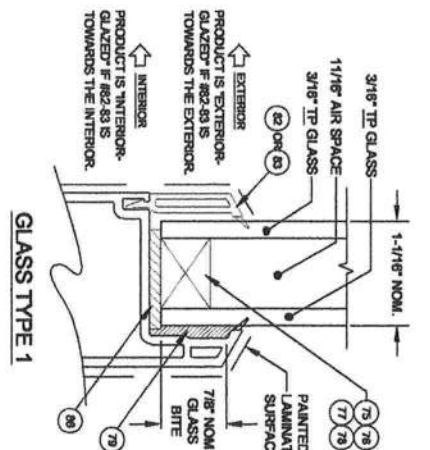
END PANEL ANCHOR EXCEPTION:

Head/Sill	C3+2
Jamb	5
P-Hook	7



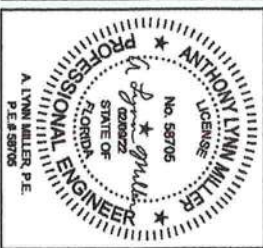
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Title VINYL SLIDING GLASS DOOR INSTALL. (NI)	Date 09/12/20	By J ROSOWSKI	No. FPA-SGD5470.2
Scale ANCHOR SPACING & EXAMPLE	Rev. 9 OF 25	Date FPA-SGD5470.2	No. B

Revision: REV B - NO CHANGES THIS SHEET. EK - 02/08/22	SEE FIGURE BELOW FOR ADDITIONAL ANCHOR INFORMATION.
--	---



PVB = KURARAY TROSIFOL PVB
 INTERLAYER BY KURARAY AMERICA, INC.
 AN = ANNEALED
 HS = HEAT-STRENGTHENED
 TP = TEMPERED

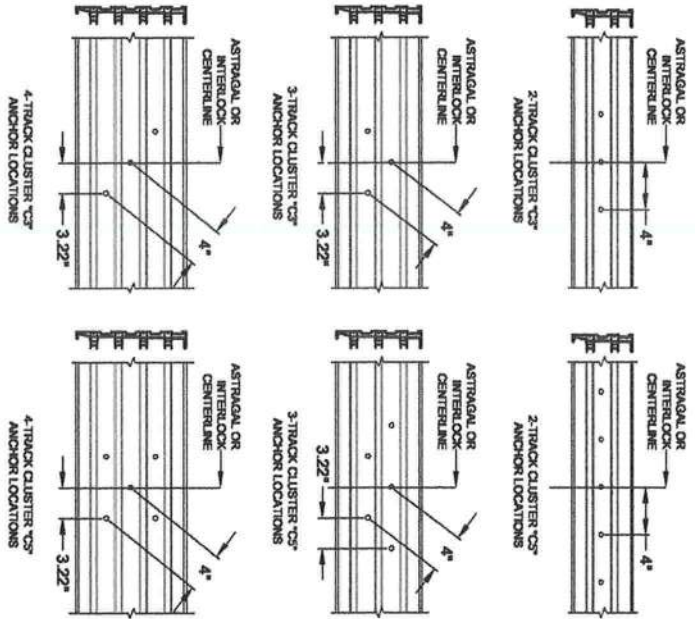
NOTES:
 1) BACKBEDDING SURFACES SHALL NOT BE PAINTED OR LAMINATED.
 2) PRODUCT MAY BE EITHER INTERIOR OR EXTERIOR GLAZED, PROVIDED THAT THE "HS" SURFACE OF A LAMINATED GLAZING UNIT IS ADHERED TO THE GLAZING LEG, IF APPLICABLE.



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Title: VINYL SLIDING GLASS DOOR INSTALL. (NI)	Date: 09/12/20	User: J ROSOWSKI	
GLASS TYPES		No. 10 OF 25	
SGD-5470	10 OF 25	FPA-SGD5470.2	B

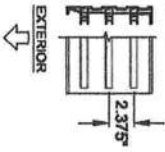
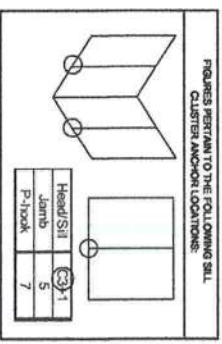
Revisions REV B - ADDED GLASS TYPES 2-3, EX - 02/09/22	Blank space for additional revisions or notes.
--	--

SILL CLUSTER ANCHORS LAYOUT:

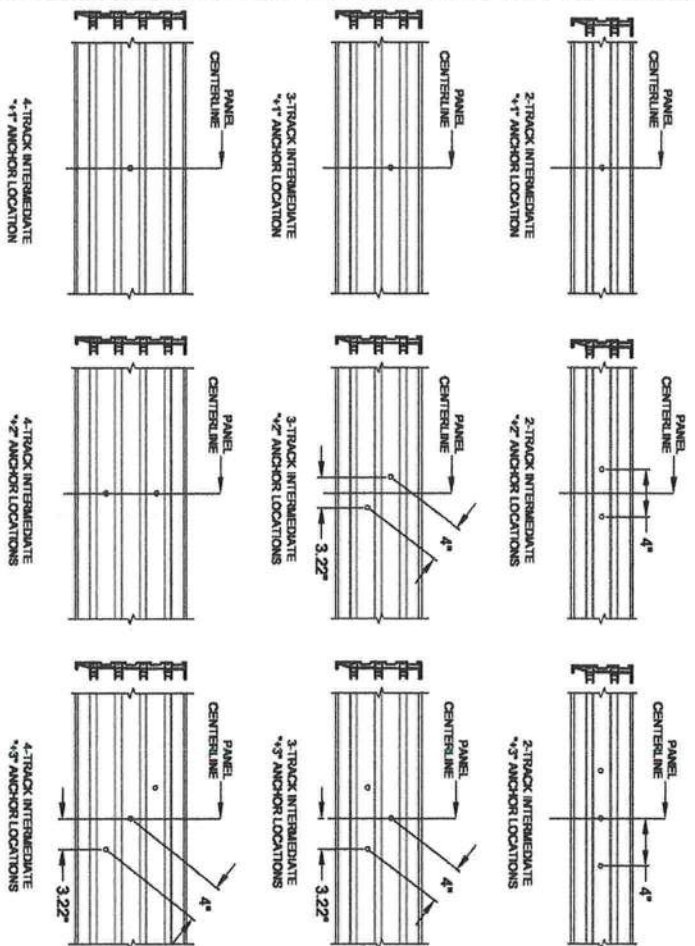


NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS.

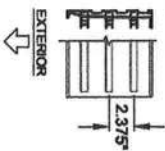
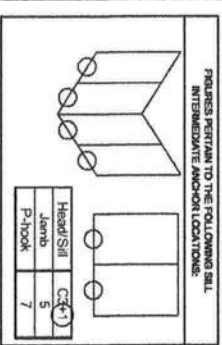


SILL "4" INTERMEDIATE ANCHORS LAYOUT:



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

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS.



Revisions:

REV B - NO CHANGES THIS SHEET. EK - 02/09/22

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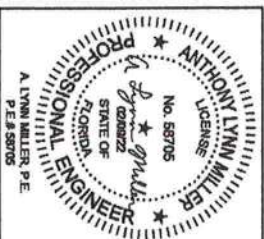
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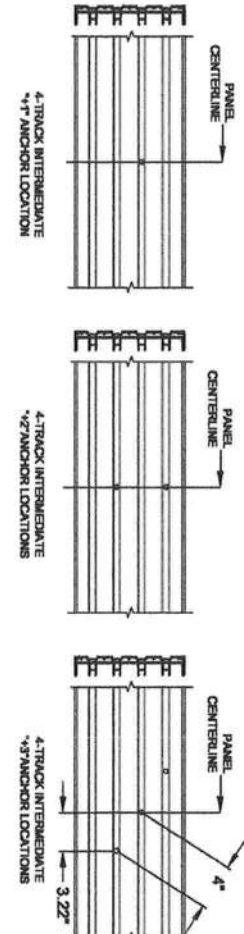
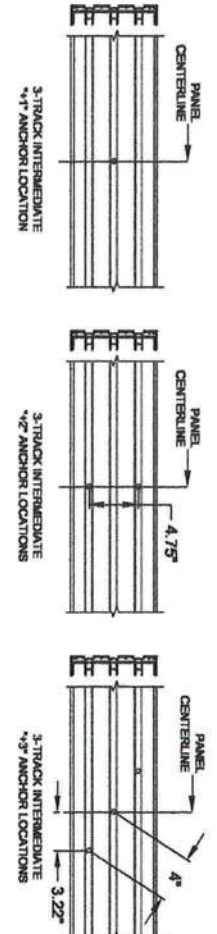
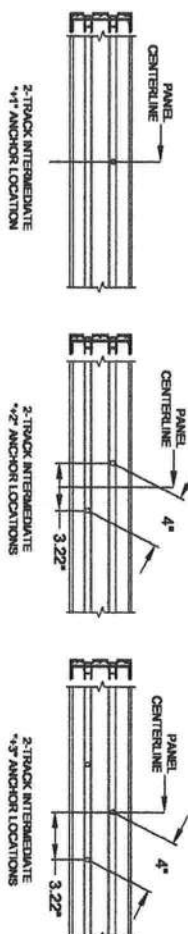
VINYL SLIDING GLASS DOOR INSTALL. (NI) 09/12/20

ANCHOR LOCATIONS A J ROSOWSKI

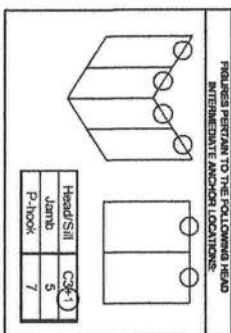
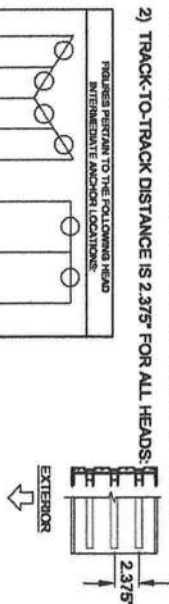
SGD-5470 11 OF 25 FPA-SGD5470.2 B



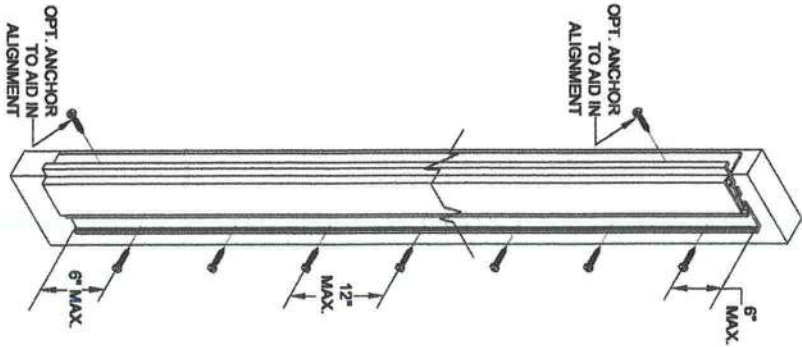
HEAD "+" INTERMEDIATE ANCHORS LAYOUT:



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



PHOOK ANCHORS LAYOUT:

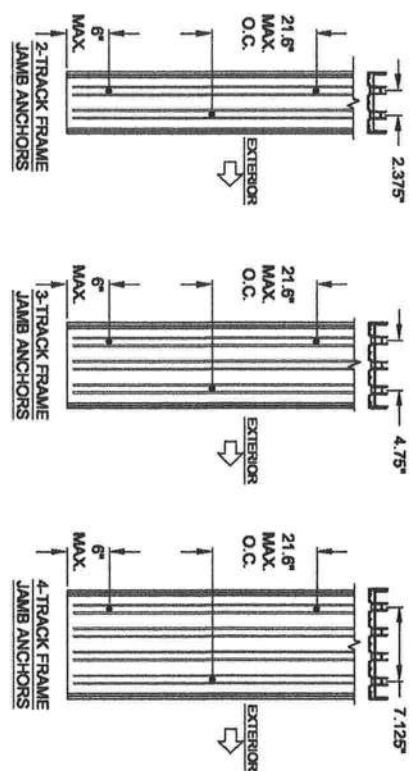


NOTES:
1) SEE TABLES 1 & 2 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK

FIGURES PERTAIN TO THE FOLLOWING POCKET JAMB P-HOOK ANCHOR LOCATIONS:

POCKET	Head/Sill	Jamb	P-Hook
POCKET	C3+1	5	7

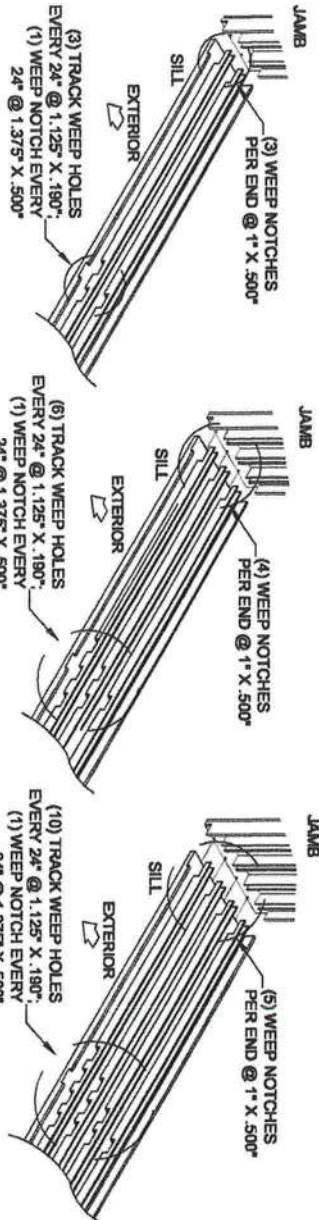
JAMB ANCHORS LAYOUT, (PARTIAL VIEW):



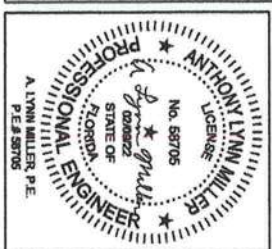
NOTE:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMBS, ANCHORS MAY BE LOCATED IN ADJACENT TRACKS (SIMILAR TO THE 2-TRACK JAMB) AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.

FIGURES PERTAIN TO THE FOLLOWING JAMB ANCHOR LOCATIONS:

POCKET	Head/Sill	Jamb	P-Hook
POCKET	C3+1	5	7



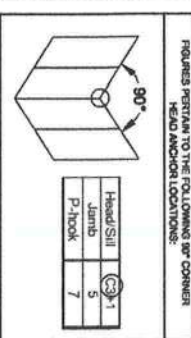
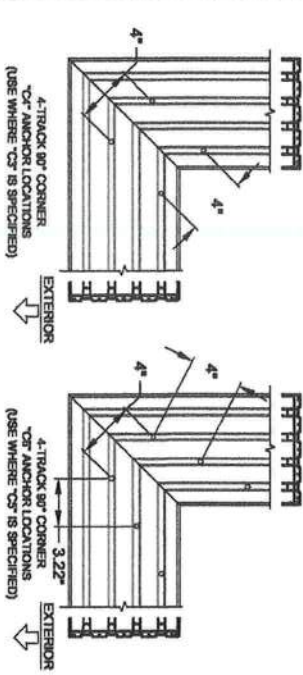
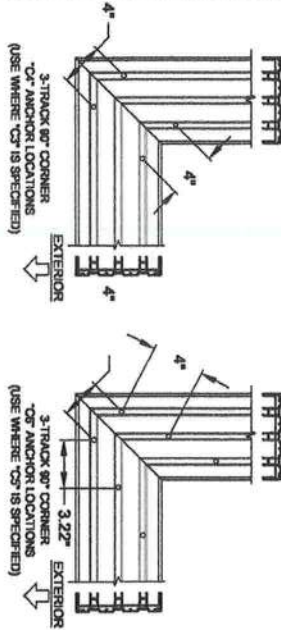
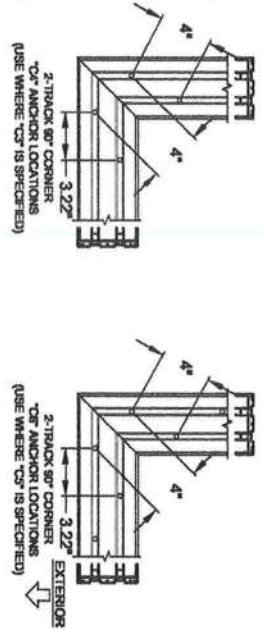
SILL WEEPHOLE LAYOUT (2, 3 & 4 TRACKS)



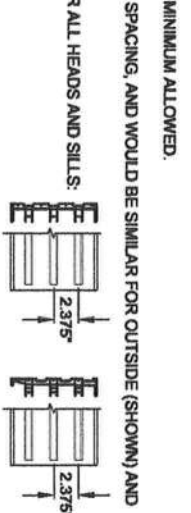
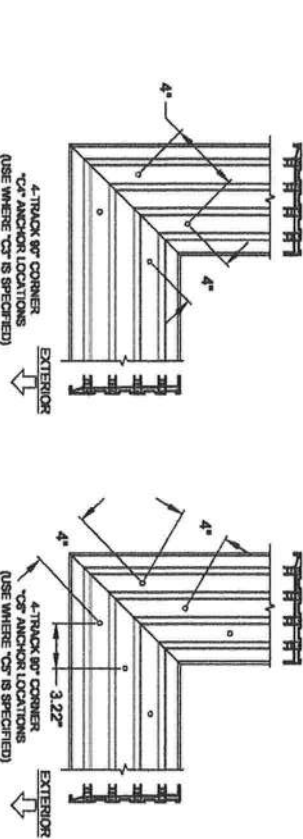
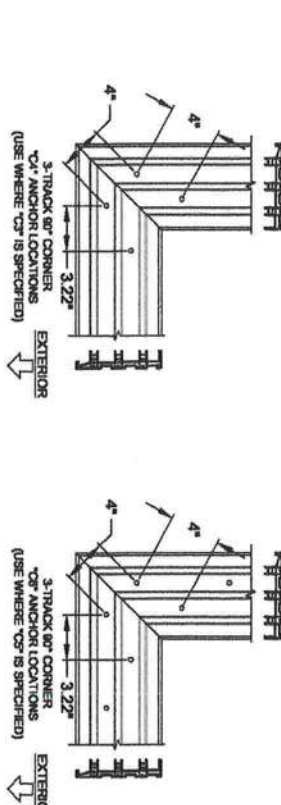
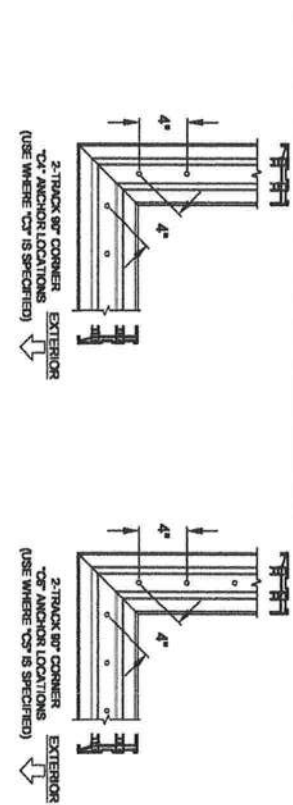
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ANCHOR LOCATIONS C	DATE:	REVISED BY: FPA-SGD5470.2	
SGD-5470	13 OF 25	B	

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HEAD 90° CORNER CLUSTER ANCHORS LAYOUT:



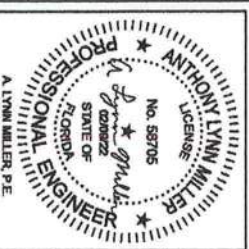
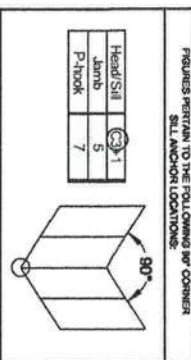
SILL 90° CORNER CLUSTER ANCHORS LAYOUT:



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

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

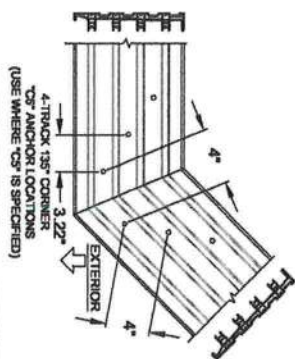
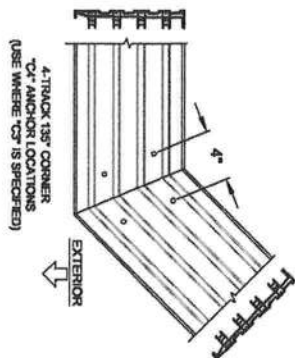
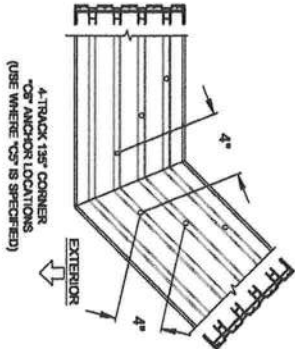
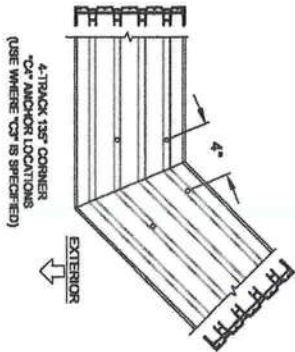
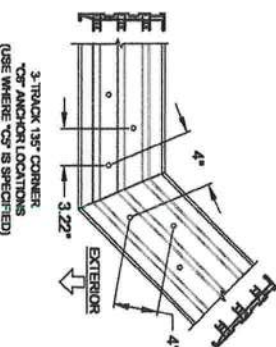
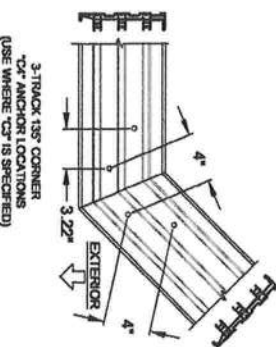
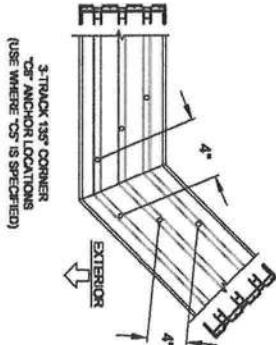
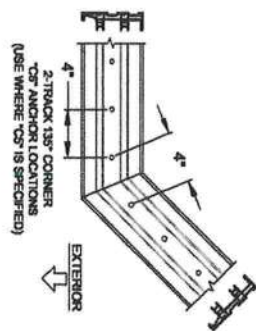
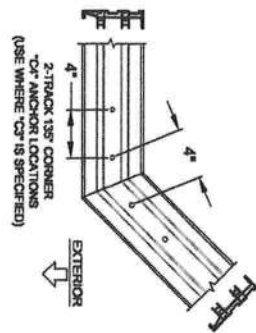
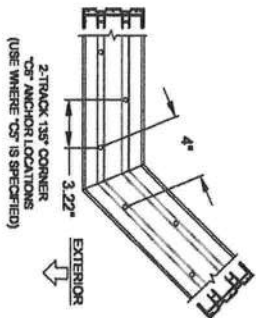
3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS.



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Title VINYL SLIDING GLASS DOOR INSTALL. (NI)	Date 09/12/20	By J ROSOWSKI	Rev
Sheet ANCHOR LOCATIONS D	Date 	By 	Rev
SGD-5470	14 OF 25	FPA-SGD5470.2	B

Revision:	REV B - NO CHANGES THIS SHEET. EX - 02/09/22
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SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



FIGURES PERTAIN TO THE FOLLOWING 135° CORNER
HEAD ANCHOR LOCATIONS:

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

135

Head/Sill	C3+1
Jamb	5
P-hook	7

2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS:

Jamb	5
P.hook	7

A diagram of a 3D structure, possibly a folded sheet or a crystal facet, showing a central circular feature and a curved arrow indicating a 135-degree angle.

Diagram of a roof structure showing a 135-degree angle. The dimensions are listed in the table below:

Head/Sill	③-1
Jamb	5
P-hook	7

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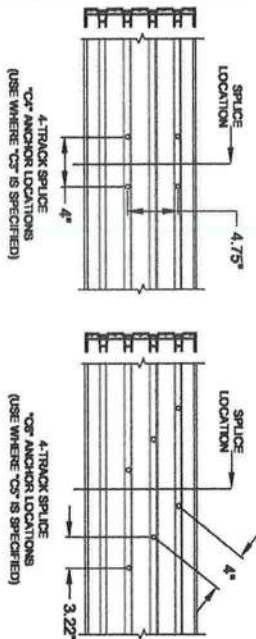
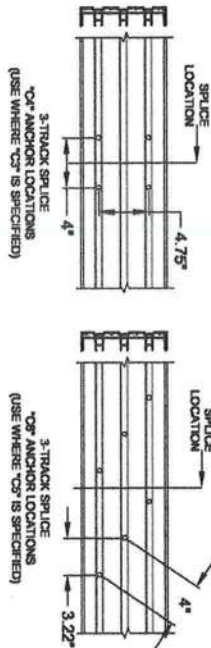
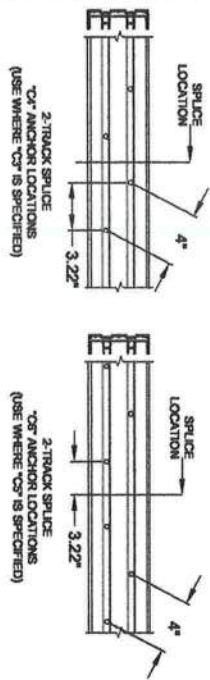
REGISTRATION #29298

VINYL SLIDING GLASS DOOR INSTALL. (NI)	Date	09/12/20
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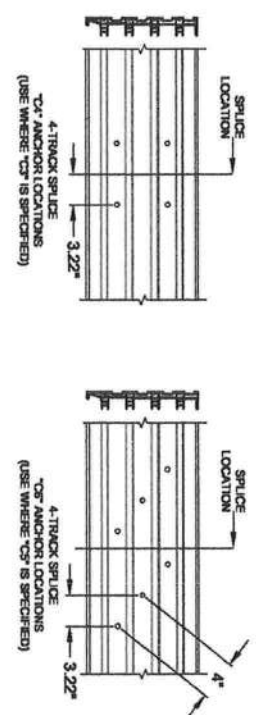
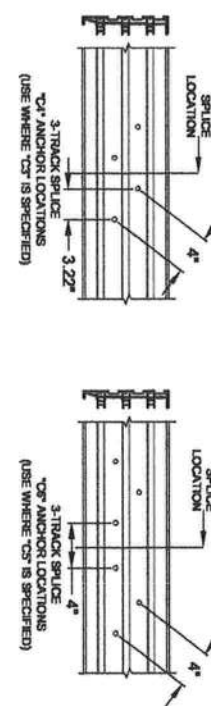
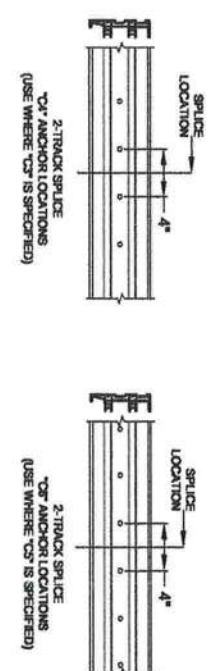
ANCHOR LOCATIONS E	row By	J ROSOWSKI
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SGD-5470	Sheet	15 OF 25	DWG No.	FPA-SGD5470.2
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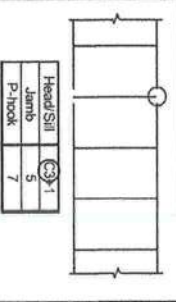
HEAD SPLICE ANCHORS @ INTERLOCK OR ASTRAGAL:



SILL SPLICE ANCHORS @ INTERLOCK OR ASTRAGAL:



FIGURES PERTAIN TO THE FOLLOWING SPLICED HEAD ANCHOR LOCATIONS:



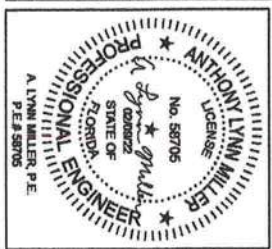
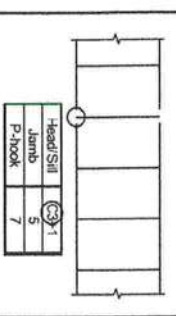
NOTES:
1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.

2) ABOVE FIGURES ARE FOR SPLICES OCCURRING AT THE ASTRAGAL OR INTERLOCK. FOR SPLICES OCCURRING INSIDE OF A POCKET, SEE THE EXAMPLE ON SHEET 8.

3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS AND SILLS.

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

FIGURES PERTAIN TO THE FOLLOWING SPLICED SILL ANCHOR LOCATIONS:



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VINYL SLIDING GLASS DOOR INSTALL. (NI)		09/12/20	
ANCHOR LOCATIONS F		J ROSOWSKI	
SGD-5470	18 OF 25	FPA-SGD5470.2 B	

REV B - NO CHANGES THIS SHEET. EK - 02/09/22	Revisions:
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PANEL'S RIGHT STYLE TYPE											
PANEL TYPES INTERIOR OR EXTERIOR GLAZED	SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STYLE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	OUTSIDE 90° ASTRAGAL RECEIVER	INSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER	
SINGLE INTERLOCK OUT	E	F	PP	K	L	L	TC	TA	TV	TW	
SINGLE INTERLOCK IN	B	H	P	A	C	C	SC	SA	SV	SW	
FIXED STYLE	RR	R			S	S	FC	FD	FV	FW	
LOCKSTILE W/ HANDLE	D	M			J	J					
ASTRAGAL BOX OUT	LR		T	U							
ASTRAGAL BOX IN		N	T	U							
OUT. 90° ASTRAGAL RECEIVER	CT	CS	CF								
IN. 90° ASTRAGAL RECEIVER	AT	AS	DF								
OUT. 135° ASTRAGAL RECEIVER	VT	VS	VF								
IN. 135° ASTRAGAL RECEIVER	WT	WS	WF								



PANEL TYPE "P" SHOWN.

- PANEL NOTES:
- 1) SEE SPANCHOR TABLES 1 & 2, SHEETS 7-8 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 80".
 - 4) PANEL TYPE MAY BE EITHER EXTERIOR (STANDARD) OR INTERIOR GLAZED, BOTH TYPES QUALIFIED BY THIS APPROVAL, SEE DETAILS SHEET 10.

SCREEN PANEL TYPES			
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



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REGISTRATION #28296

VINYL SLIDING GLASS DOOR INSTALL. (NI) 09/12/20

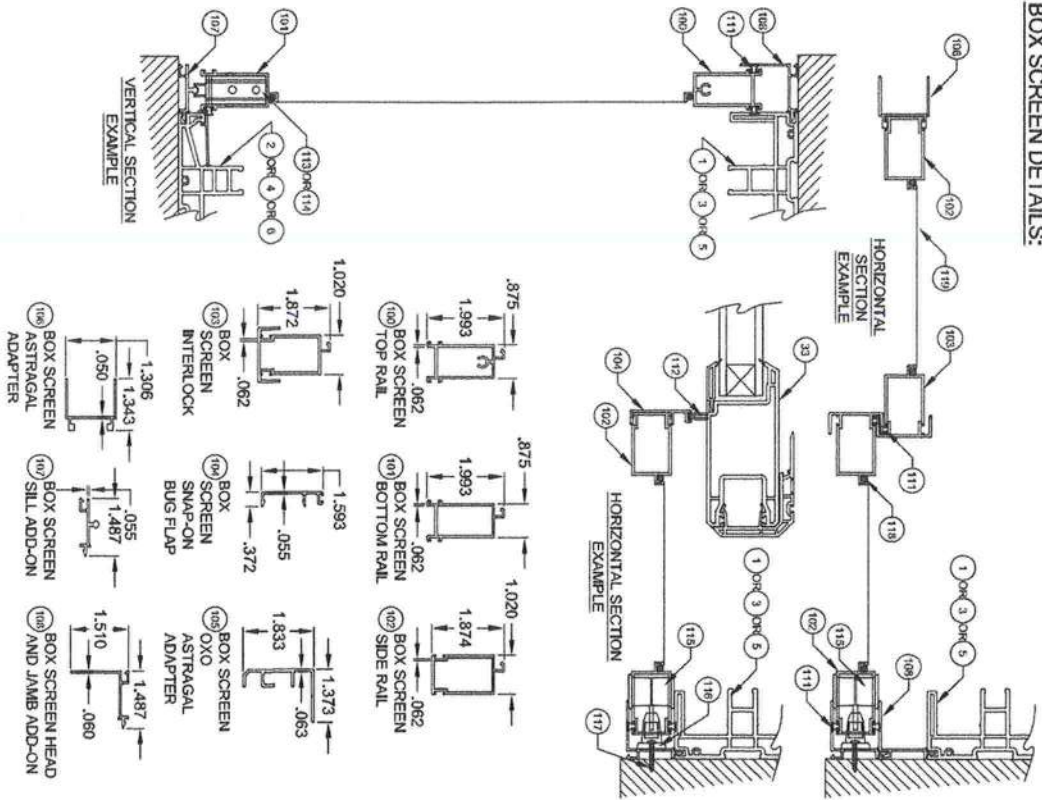
PANEL TYPES J ROSOWSKI

SGD-5470 17 OF 25 FPA-SGD5470.2 B

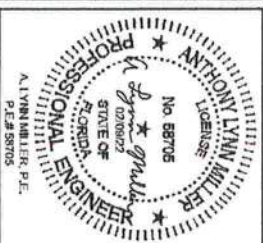
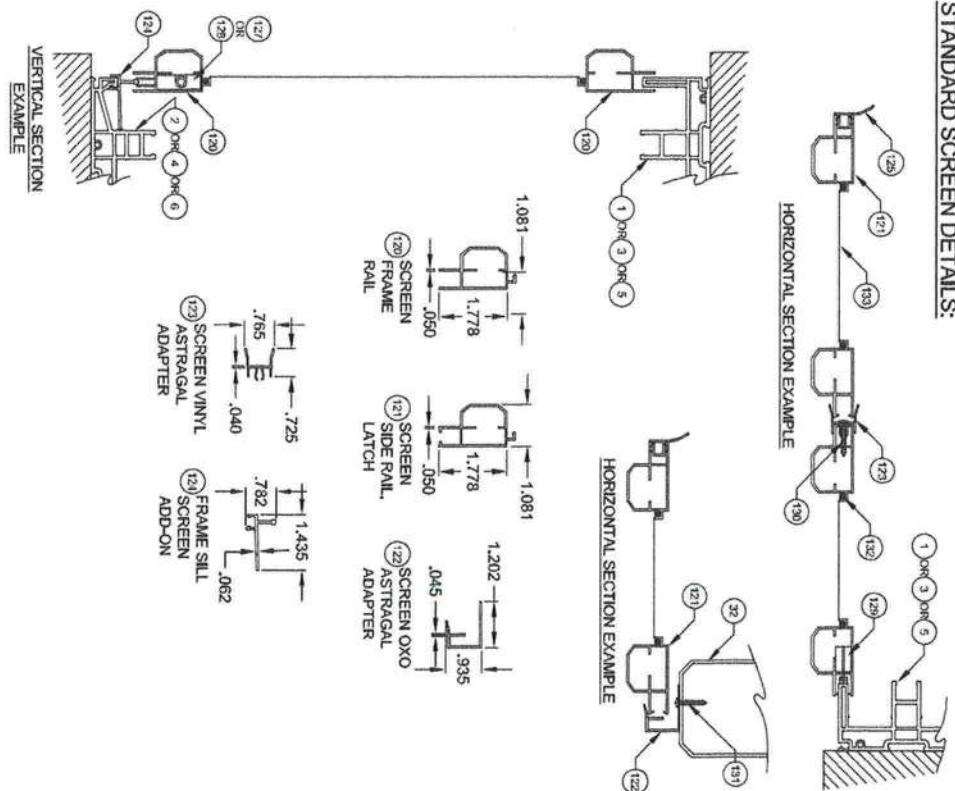
Revision:

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SHEET. EX - 10/09/22

BOX SCREEN DETAILS:



STANDARD SCREEN DETAILS:



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VINYL SLIDING GLASS DOOR INSTALL. (NI)		DATE	09/12/20
SCREEN DETAILS		BY	J ROSOWSKI
SGD-5470	20 OF 25	APP'D	FPA-SGD5470.2
		REV	B

Revision:		REV B - NO CHANGES THIS SHEET. BK - 02/00/22	

TABLE C:

#	Part #	Description	Material
1	19001	2-Track Head/Lamb	Rigid PVC
2	19002	2-Track Sill	Rigid PVC
3	19003	3-Track Head/Lamb	Rigid PVC
4	19004	3-Track Sill	Rigid PVC
5	19005	4-Track Head/Lamb	Rigid PVC
6	19006	4-Track Sill	Rigid PVC
7	19007	Frame Screw Cover	Rigid PVC
8	19008	Anchor Plug	6063-T6 Alum.
9	19009	Track Inset	6063-T6 Alum.
10	19010	Interlock Cap - Extended Pocket	Rigid PVC
11	19011	Bottom Rail Support	6063-T6 Alum.
12	19012	Outer Sill Cover	6063-T6 Alum.
13	19013	Sill Track Cover	Rigid PVC
14	19014	P-Hook Adapter	6063-T6 Alum.
15	19015	P-Hook	6063-T6 Alum.
16	19016	Extended Keeper	6063-T6 Alum.
17	19017	Keeper	6063-T6 Alum.
18	19018	Reinforcement Bar Cover	Rigid PVC
19	19019	Reinforcement Bar	6063-T6 Alum.
20	19020	Fixed Panel Clip	6063-T6 Alum.
21	19021	Reinforcement Plate	6063-T6 Alum.
22	19022	Top Rail, Bottom Rail and Locksite	Composite
23	19023	Reinforcement, Sill	6063-T6 Alum.
24	19024	Interlock, 400 Reinforcement, HD	6063-T6 Alum.
25	19025	Astragal Reinforcement	6063-T6 Alum.
26	19026	Extended Pocket Interlock Adapter	Rigid PVC
27	19027	Interlock Adapter	Rigid PVC
28	19028	Astragal Add-on	Rigid PVC
29	19029	Panel Site, Top/Bottom Rail	Rigid PVC
30	19030	Interlock Jamb Cover	6063-T6 Alum.
31	19031	135° Corner Astragal	6063-T6 Alum.
32	19032	135° Corner Astragal Passive Mount	6063-T6 Alum.
33	19033	135° Corner Astragal Cap - Ext.	Rigid PVC
34	19034	135° Corner Astragal Cap - Int.	Rigid PVC
35	19035	90° Corner Astragal	6063-T6 Alum.

#	Part #	Description	Material
40	19081	90° Corner Astragal Cap - Ext.	Rigid PVC
41	19082	90° Corner Astragal Cap - Int.	Rigid PVC
42	19083	Sill Reser - (2-1/2")	6063-T6 Alum.
43	19084	Sill Reser - (3-1/2")	6063-T6 Alum.
44	19085	Sill Reser - (4-1/2")	6063-T6 Alum.
45	19086	Sill Reser - (4-5/8")	6063-T6 Alum.
46	19087	167" x 320" Fitted (Sill)	6063-T6 Alum.
47	19088	1-1/2" x 1" x 3/4" Fin Steel Dual Plug	PVC
48	19089	Interlock Clip Cover	SS
49	19090	Tension Roller Assembly	Nylon
50	19091	Tension Roller Assembly	SS
51	19092	88 x 2-1/4" FH SMS @ Roller & Reinf.	SS
52	19093	Frame Header Block	Nylon
53	19094	Roller Adj. Hole Plug	PVC
54	19095	4 Hole Bumper Stop	PVC
55	19096	86 x 1-1/4" FH SMS @ Bumper Stop	SS
56	19097	SS Plug	SS
57	19098	Genuine Mortise Lock w/ing Trim plate	Steel/SS
58	19099	10-32 x 1" FH SMS @ Lock	SS
59	19100	Handle Kit	Cast Zinc
60	19101	Kennelring SS, TPS Spacer System	See Sheet 10 for Materials
61	19102	Quarx Super Spacer nrt with Hot Melt Buyl	Materials
62	19103	Cardinal X, Edge Spacer	Silicone
63	19104	Down-91, 983, 995 or RGS-7/100 Backsealing	Rigid PVC
64	19105	1-1/16" Beveled Bead	Rigid PVC
65	19106	Setting Block 1" x 4" x 1/16", 35 +/- 5 duro	Neprene
66	19107	88 x 1" FH SMS @ Frame Assembly	SS
67	19108	88 x 1-1/4" FH SMS @ Reinf. Bar	SS
68	19109	710X1P4P18-8X	SS
69	19110	710X1P4P18-8X	SS
70	19111	710X1P4P18-8X	SS
71	19112	710X1P4P18-8X	SS
72	19113	710X1P4P18-8X	SS
73	19114	710X1P4P18-8X	SS
74	19115	710X1P4P18-8X	SS
75	19116	710X1P4P18-8X	SS
76	19117	710X1P4P18-8X	SS
77	19118	710X1P4P18-8X	SS
78	19119	710X1P4P18-8X	SS
79	19120	710X1P4P18-8X	SS
80	19121	710X1P4P18-8X	SS
81	19122	710X1P4P18-8X	SS
82	19123	710X1P4P18-8X	SS
83	19124	710X1P4P18-8X	SS
84	19125	710X1P4P18-8X	SS
85	19126	710X1P4P18-8X	SS
86	19127	710X1P4P18-8X	SS
87	19128	710X1P4P18-8X	SS
88	19129	710X1P4P18-8X	SS
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100	19141	710X1P4P18-8X	SS

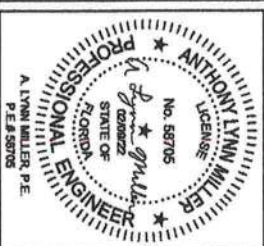
TABLE D: BOX SCREEN

#	Part #	Description	Material
100	12256	Box Screen Top Rail	6063 T6 Al
101	12257	Box Screen Bottom Rail	6063 T6 Al
102	12258	Box Screen Side Rail	6063 T6 Al
103	64428	Box Screen Interlock	6063 T6 Al
104	17347A	Box Screen Snap-on Bug Flap	6063 T6 Al
105	64345	Box Screen OXO Astragal Adapter	6063 T6 Al
106	17349	Box Screen Astragal Adapter	6063 T6 Al
107	19039	Box Screen Frame Sill Add-on	6063 T6 Al
108	19038	Box Screen Head/Lamb Add-on	6063 T6 Al
109	720X11X	714-20 x 1-1/2" MS @ Top Rail	SS
110	720X11X	714-20 x 1-1/2" MS @ Bottom Rail	SS
111	71730G	MSD, 2707 x 1507 - Fin Seal	SS
112	61805K	MSD, 187" x 500" @ Bug Flap	Nylon
113	7SR42	Standard roller	SS
114	7SR4X	HD Roller	SS
115	7SR42	Screen Locking Hardware	Steel
116	419603	Screen Keeper	Steel
117	76X1P4	86 x 1" FH SMS	Steel
118	1692/3/4	Screen Spine - 1697 & 1697	Vinyl
119	1816C20	Screen Cloth	Fiberglass

TABLE E: STANDARD SCREEN

#	Part #	Description	Material
120	12033	Screen Frame Rail	6063 T5 Al
121	12034	Screen Frame - Side Rail (Latch)	6063 T5 Al
122	17363	Screen OXO Astragal Adapter	6063 T6 Al
123	4803K	Screen Vinyl Astragal Adapter	Rigid PVC
124	19012B	Frame Sill Screen Add-on	6063 T6 Al
125	6F956K	Bug Flap, 85 +/- 5 duro	Vinyl
126	78X12P5A1S	86 x 1-1/2" FH SMS (Assembly)	SS
127	71207	Center Key Wheel Assembly (Standard)	Nylon
128	71207TS	Center Key Wheel Assembly (T-D)	SS
129	71207TS	Screen Locking Hardware	Steel
130	710X4P5SDX	810 x 3/4" FH SMS @ Screen Asst.	SS
131	78X12P5A1S	86 x 1-1/2" FH SMS @ Door Asst.	SS
132	1692/3/4	Screen Spine - 145"	Vinyl
133	1816C20	Screen Cloth	Fiberglass

NOTES:
1) ITEMS # 14-16, 46-49, 53-59, 72-74, 80, 81, 84, 85, 87-89, 98 & 99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.



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VINYL SLIDING GLASS DOOR INSTALL. (NI) 09/12/20

BILL OF MATERIALS

SGD-5470 21 OF 25 FPA-SGD5470.2 B

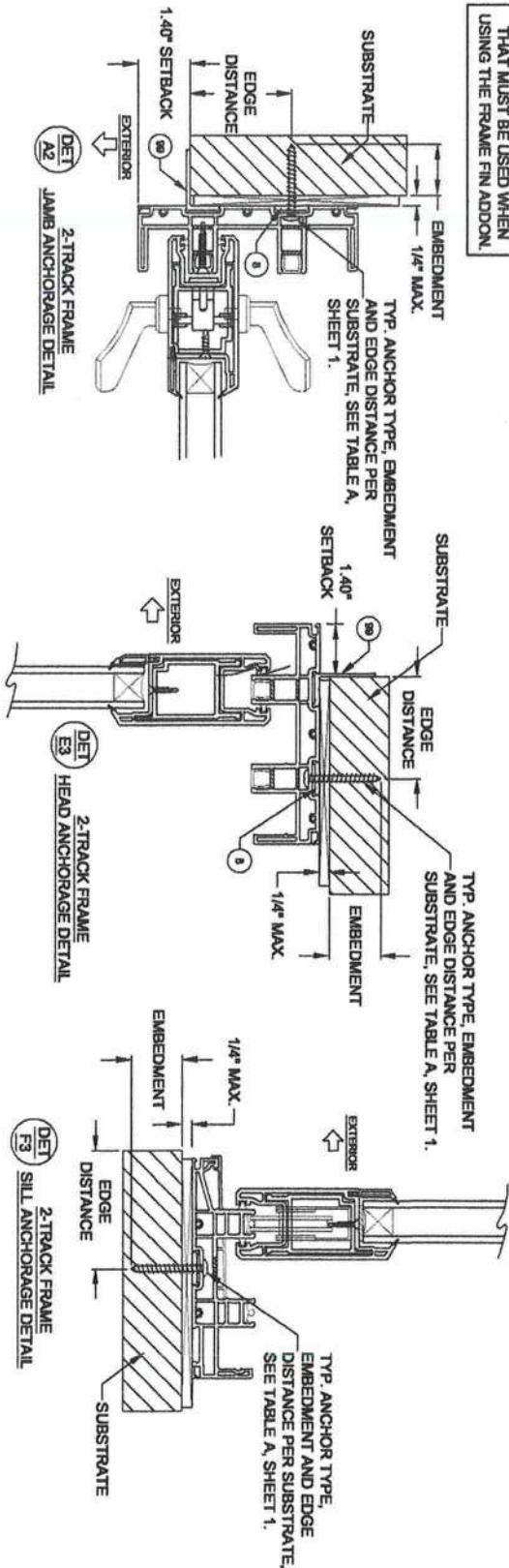
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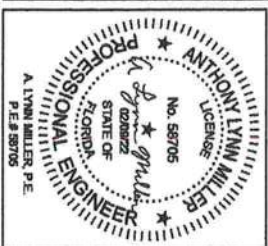
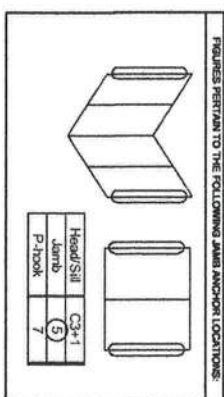
TO ACHIEVE PROPER ANCHOR EDGE DISTANCE, THE FOLLOWING SHEETS (22-25) SHOW ANCHOR PATTERNS THAT MUST BE USED WHEN USING THE FRAME FIN ADDON.

NOTES:

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) REFER TO TABLE A FOR ANCHOR CONSTRAINTS.
- 3) STILL ANCHORAGE WITH FIN ADDON IS UNCHANGED FROM THE BOX FRAME ANCHORAGE.



NOTE:
1) STANDARD ANCHOR LOCATIONS SHOWN. FOR 3 AND 4-TRACK JAMES, ANCHORS IN THE INTERIOR TRACK MAY BE LOCATED IN THE ADJACENT TRACK AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS FROM THE INTERIOR.



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VINYL SLIDING GLASS DOOR INSTALL. (NI)	Date	09/12/20
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ANCHOR LOCATIONS - FIN

By J ROSOWSKI

SGD-5470

22 OF 25

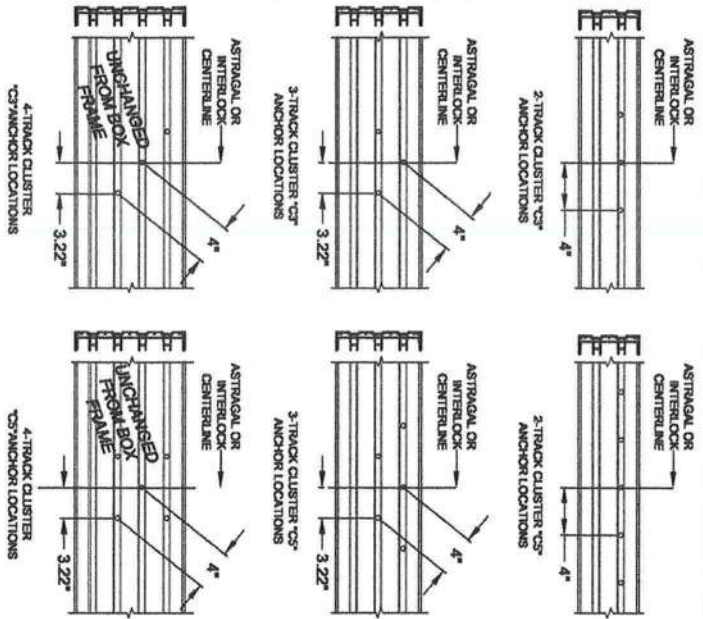
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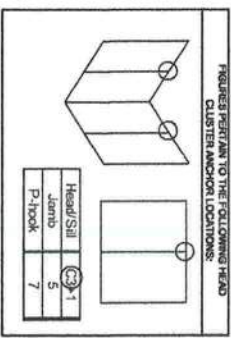
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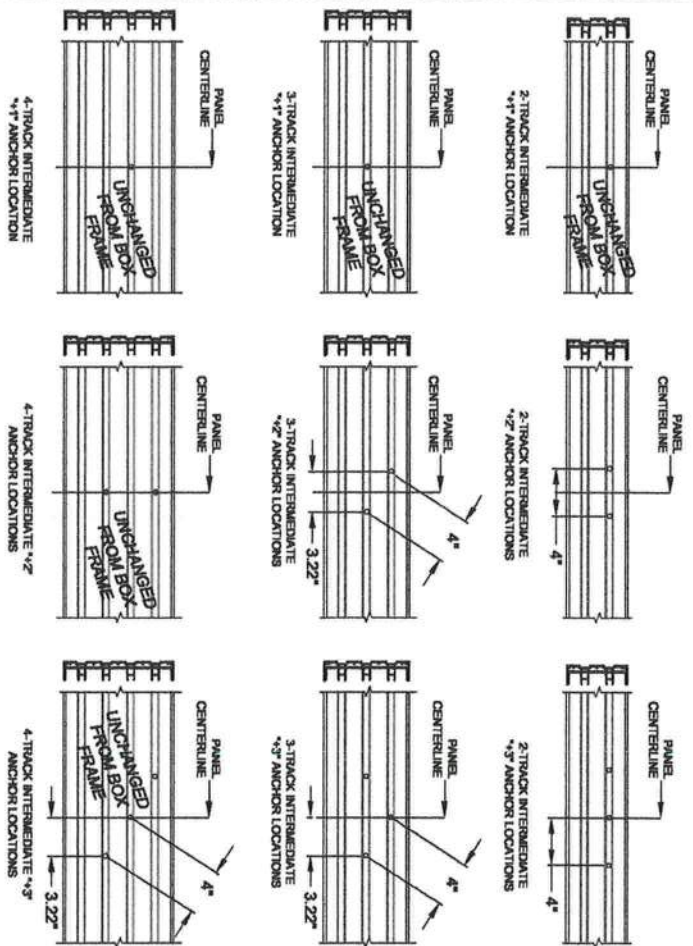
HEAD CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



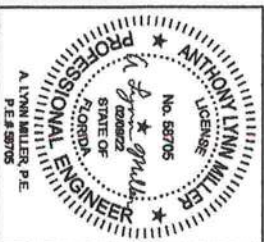
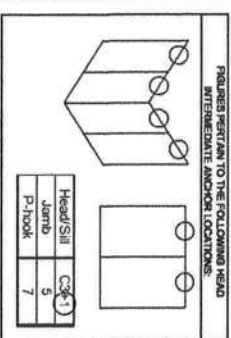
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS.



HEAD "4" INTERMEDIATE ANCHORS LAYOUT (USING FIN ADDON):



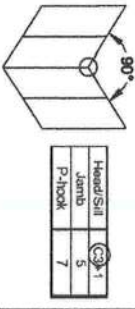
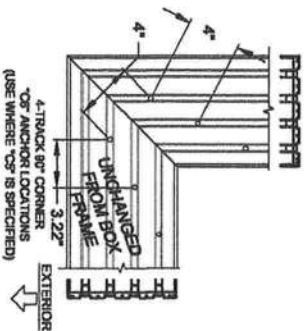
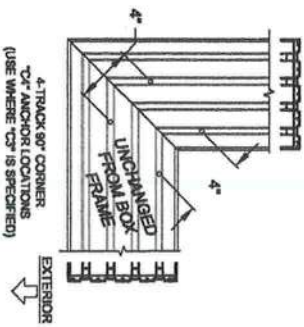
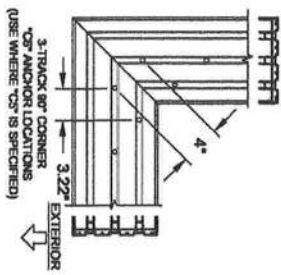
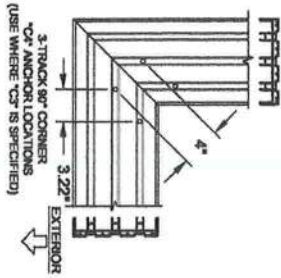
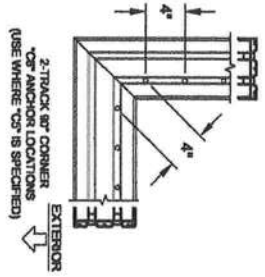
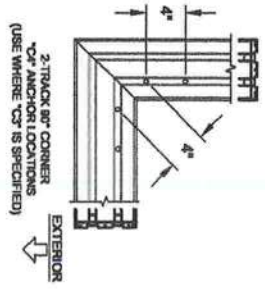
- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL SILLS.



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ANCHOR LOCATIONS - FIN		J ROSOWSKI	
SGD-5470	23 OF 25	FPA-SGD5470.2	B

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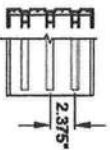
HEAD 90° CORNER CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



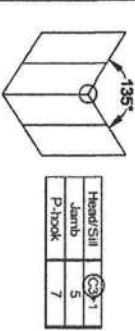
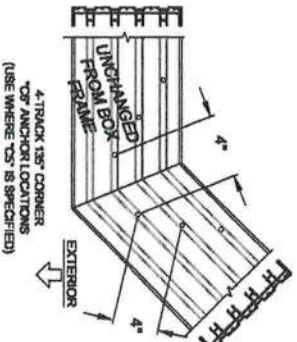
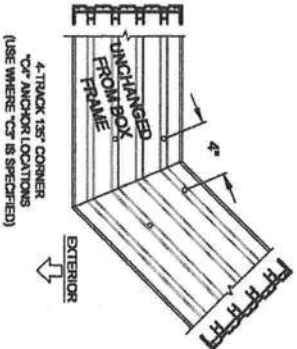
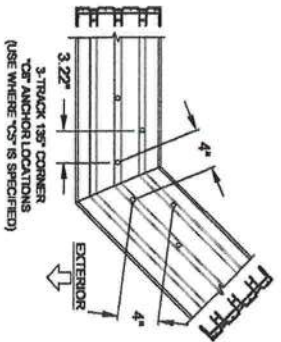
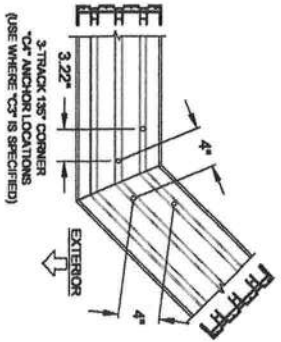
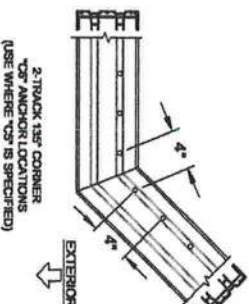
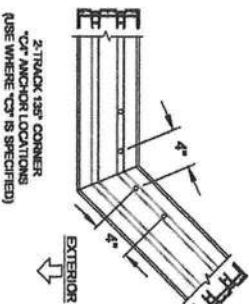
Head/Sill	1
Jamb	5
P-Track	7

FIGURES PERTAIN TO THE FOLLOWING 90° CORNER HEAD ANCHOR LOCATIONS:

- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
 - 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS.

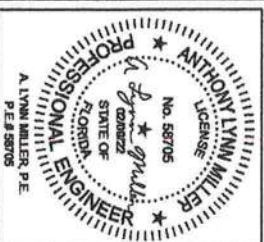


HEAD 135° CORNER CLUSTER ANCHORS LAYOUT (USING FIN ADDON):



Head/Sill	1
Jamb	5
P-Track	7

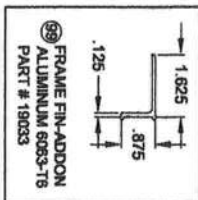
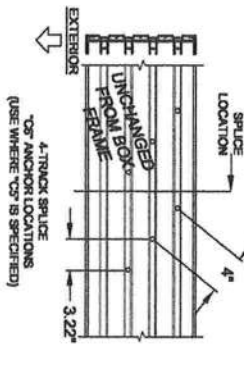
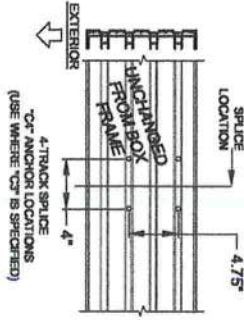
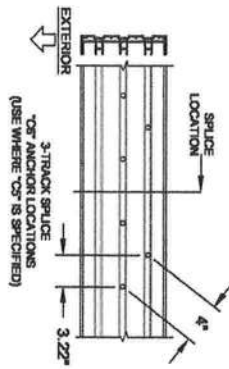
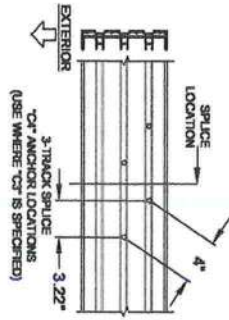
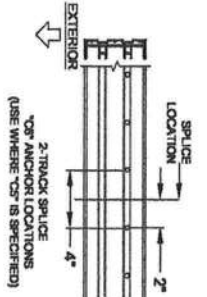
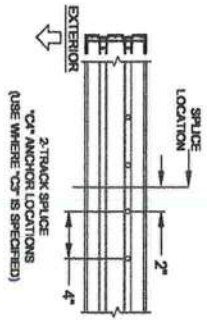
FIGURES PERTAIN TO THE FOLLOWING 135° CORNER HEAD ANCHOR LOCATIONS:



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ANCHOR LOCATIONS - FIN		J ROSOWSKI	
SGD-5470	24 OF 25	FPA-SGD5470.2	B

Revision:	REV/B - NO CHANGES THIS SHEET. EK - 02/28/22
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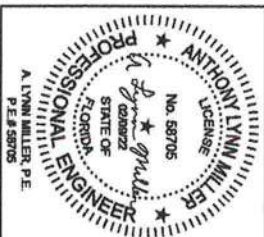
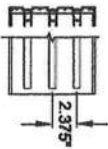
HEAD SPLICE ANCHORS LAYOUT @ INTERLOCK OR ASTRAGAL (USING FIN ADDON)



FIGURES PERTAIN TO THE FOLLOWING SPLICE HEAD ANCHOR LOCATIONS:

Head/Sill	1
Jamb	5
P-Track	7

- NOTES:
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR OUTSIDE (SHOWN) AND INSIDE CORNER CONFIGURATIONS.
 - 3) TRACK-TO-TRACK DISTANCE IS 2.375" FOR ALL HEADS:



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ANCHOR LOCATIONS - FIN		J ROSOWSKI	
SGD-5470	25 OF 25	FPA-SGD5470.2	B

Revisions:	REV B - NO CHANGES THIS SHEET. EK - 02/09/22
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GENERAL NOTES:

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR ENDED TO BEG MATERIAL SHALL BE BEYOND WALL FINISH OR STUDO.
2. OPENINGS, BLOCKING & BLOCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO WITHSTAND THE LOADS OF THE PRODUCT.
3. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. ANCHORS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER BUILDING MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QUALITY ASSURANCE & PROFESSIONAL REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE, SPECIFICATIONS & TESTING REPORTS.
7. THE FOLLOWING APPLIES: 1) PRODUCT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN THE MANUFACTURER. 3) CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. 4) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION BINARY CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THE LATEST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCTS CERTIFICATION SHALL CONTROL FOR THE INSTALLED PRODUCT.
9. WATER PROOFING OF THE PRODUCT SHALL BE THE RESPONSIBILITY OF THE INSTALLER.
10. THE PRODUCT IS NOT PART OF THE CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSULATOR.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT OF A NEW CODE VERSION, THE EVALUATION IS COMPLETED ON THE RETROFITTED PRODUCT PRIOR TO STARTING CODE COMPLIANCE. THE EVALUATION ENGINEER OF RECORD SHALL CONFER WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

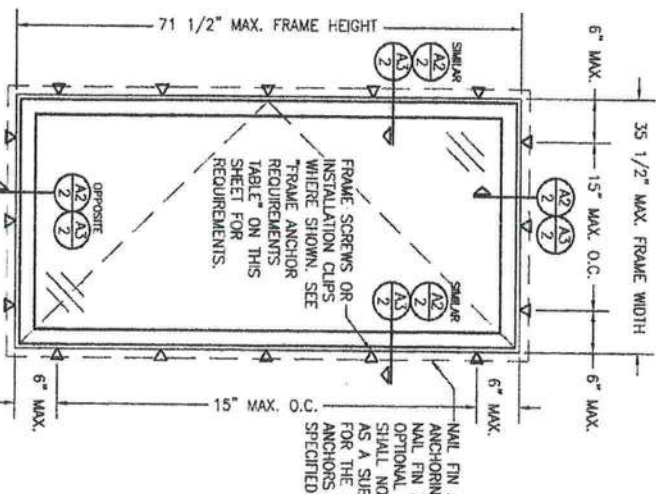
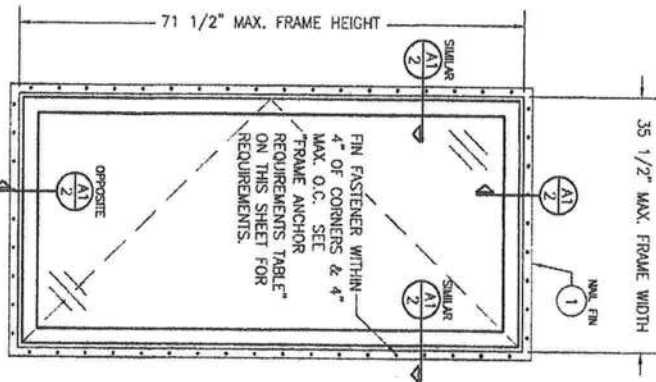
CONDITIONS SHOWN IN THIS DRAWING ARE GOVERNED BY REGULATORY REQUIREMENTS ONLY. THE COVERING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE BASIS OF THOSE SPECIFIED IN THE PRODUCT'S QUALITY ASSURANCE, TESTING REPORTS, OR THE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

INSTALLATION NOTE: WHEN NECESSARY, INSTALLATION METHODS MAY BE ADDED WITH ANY ONE WINDOW SUCH THAT NO MINIMUM SIZES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: SEE MINIMUM SIZES OF THE WINDOW METHOD WHILE OTHER SIZES USE FIN).

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (C.S.), ITW RAMSEY/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KIMK-CON II (C.S. OR S.S.).
- (2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION:
SINGLE WINDOW
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

EXTERIOR ELEVATION:
SINGLE WINDOW
SCALE: 3/4" = 1'-0"
(FRAME SCREW AND CLIP MOUNT CONDITION)

WIDEN BUCKS FOR CLIP MOUNT AS REQUIRED TO MEET EDGE DISTANCE REQUIREMENTS.

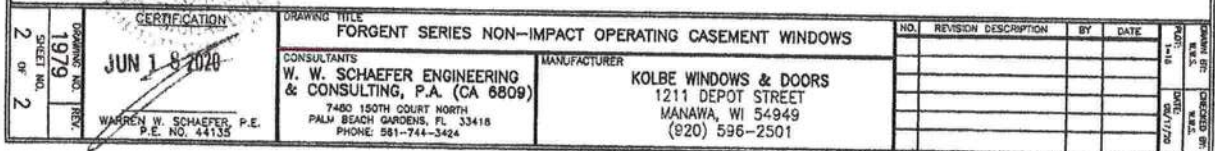
ALLOWABLE DESIGN PRESSURE:
+/-50 PSF

NOTE: HOLES IN CLIPS MAY NEED TO BE WIDENED TO ACCOMMODATE 1/4" CONCRETE SCREWS.

ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARDS AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS OF THIS PRODUCT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT AND/OR INSTALLATION OF ANY OTHER PRODUCT OR ANY OTHER PRODUCT NOT PRODUCED BY THE MANUFACTURER, LISTED IN THESE DRAWINGS.

CERTIFICATION JUN 1 8 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING TITLE FORGENT SERIES NON-IMPACT OPERATING CASEMENT WINDOWS		MANUFACTURER KOLBE WINDOWS & DOORS 1211 DEPOT STREET MANAWA, WI 54949 (920) 596-2501	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 160TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		NO. 1		REVISION DESCRIPTION 1. INITIALS 2. DATE	
DOCUMENT NO. 1979		SHEET NO. 1 OF 2		CHECKED BY [Signature]	



1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR BARED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.

1. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS MUST BE PROPERLY DESIGNED & INSTALLED TO WITHSTAND THE DESIGN LOADS & BUILDING REQUIREMENTS.
2. THESE NON-IMPACT RATED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLOLOM BUILDING CODE (FBC).
3. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BLOCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOODS.
4. THE PRODUCT SHALL BE PROTECTED FROM EXCESSIVE MOISTURE EXPOSURE.
5. THE WOODS, INCLUDING BUT NOT LIMITED TO STEEL JOISTS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLOLOM BUILDING CODE, CHAPTER 20.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT/SHOWN ENTRY IS CERTIFIED & QUALITY ASSURED BY A FLOLOM STATE APPROVED CERTIFICATION/QUALITY ENTRY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLOLOM DEPARTMENT OF BUSINESS & ECONOMIC REGULATION SPECIFIC TO THE FBC AND THE FLOLOM DEPARTMENT OF BUSINESS & ECONOMIC REGULATION.
7. ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE PROGRAMS AND SHALL BE IN ACCORDANCE WITH THE FBC AND THE FLOLOM DEPARTMENT OF BUSINESS & ECONOMIC REGULATION.
8. FOLLOWING APPLY: 1) PRODUCT IS INSTALLED WITHOUT A BUILDING PERMIT FROM ANY OF THE LOCAL BUILDING DEPARTMENT. 2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTRY'S CERTIFICATE THAT CAUSE THESE CHANGES TO BE NON-COMPLIANT WITH THE FBC, THE PRODUCT SHALL BE RE-CERTIFIED.
9. THE LATEST DESIGN PRESSURE SPECIFIED OTHER THAN THE DESIGN PRESSURE IN THE PRODUCTS CERTIFICATION SHALL CONTROL FOR THE INSTALLED PRODUCT ONLY. WATER PROOFING OF THE PRODUCT SHALL BE THE RESPONSIBILITY OF THE INSTALLER.
10. THESE DRAWINGS CANNOT BE USED FOR THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION FROM AVAILABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THE EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT OF A DISCREPANCY BETWEEN THE EVALUATION AND THE REFERENCED FLORIDA BUILDING CODE, TESTING IS COMPLETED ON THE REFERENCED FLORIDA BUILDING CODE. PRIOR TO TESTING, THE EVALUATION ENGINEER SHALL CONFIRM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

CONDITIONS SHOWN IN THIS DRAWING ARE COVERED BY INSTALLATION REQUIREMENTS ONLY. THE GOVERNING CONDITIONS ON ANY SPECIFIC PRODUCT SHALL BE THE LESSER OF THOSE SPECIFIED IN THE PRODUCTS STATE APPROVAL OR THAT SHOWN IN THESE DRAWINGS.

TYPE	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE
(RATE)	

FRAME & INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4" -
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2" -
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2" -
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

INSTALLATION NOTE:
WHEN NECESSARY,

BE MOUNTED WITH ANY ONE WINDOW SASH THAN INDIVIDUAL SIDES OF THE WINDOW MAY USE OR THE OTHER ANCHOR METHOD (EXAMPLE: SILL MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE FIN)

ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARDS AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY SUBSTRATES OR CONDITIONS OUTSIDE OF WHAT IS SHOWN HERE-IN SHALL BE SUBJECT TO JOB SPECIFIC

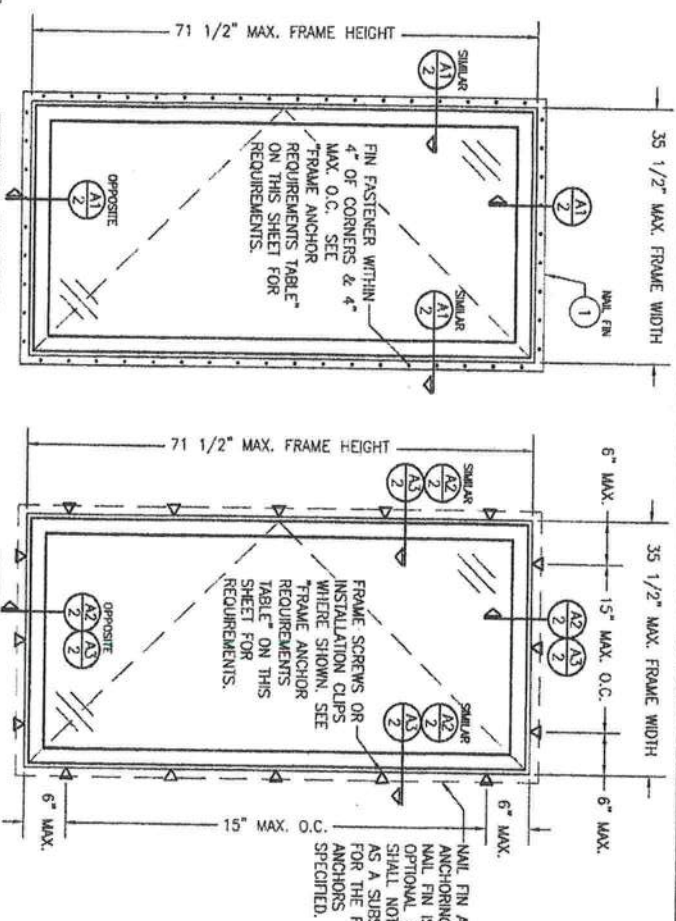
-NOTE: HOLES IN CLIPS MAY NEED TO BE WIDENED TO ACCOMMODATE 1/4" CONCRETE SCREWS.

—WIDEN BUCKS FOR CLIP MOUNT AS REQUIRED TO MEET EDGE DISTANCE REQUIREMENTS.

(NAIL FIN MOUNT CONDITION)

(FRAME SCREW AND CLIP MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE
+/-50 PSF



THESE DIMENSIONS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RETAIL AND/OR LOCAL APPROVAL OF Airt Product Not Produced by the Manufacturer Stated on These Dimensions.

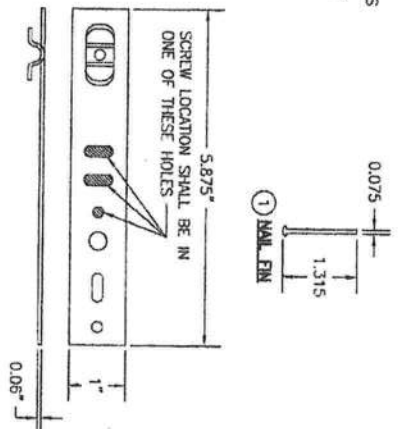
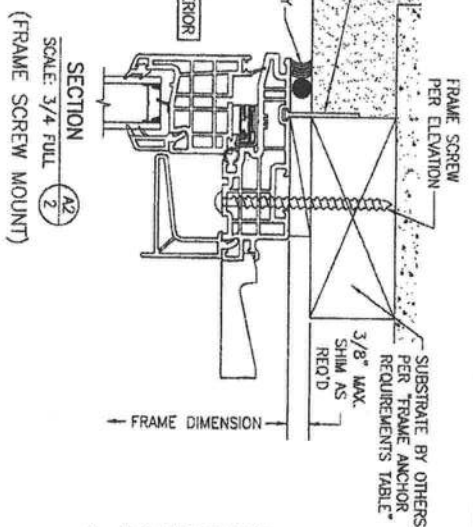
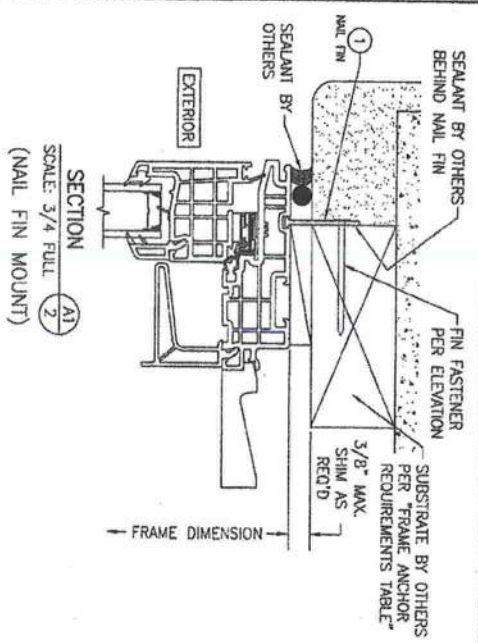
DRAWING NO.	REV.
1979	
SHEET NO.	
1 OF 2	

DRAWING TITLE
FORGENT SERIES NON-IP

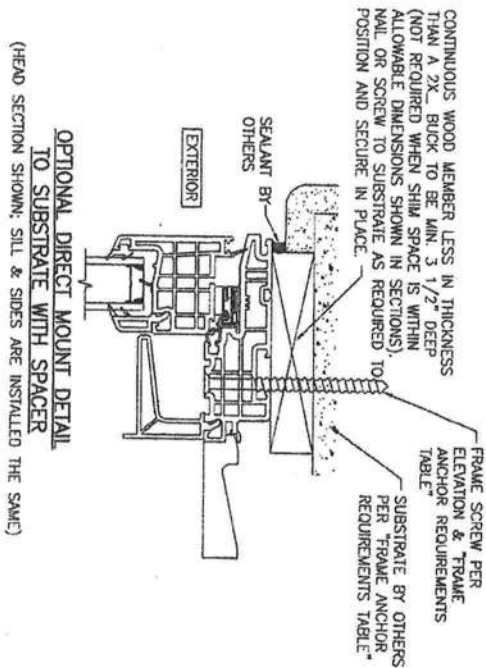
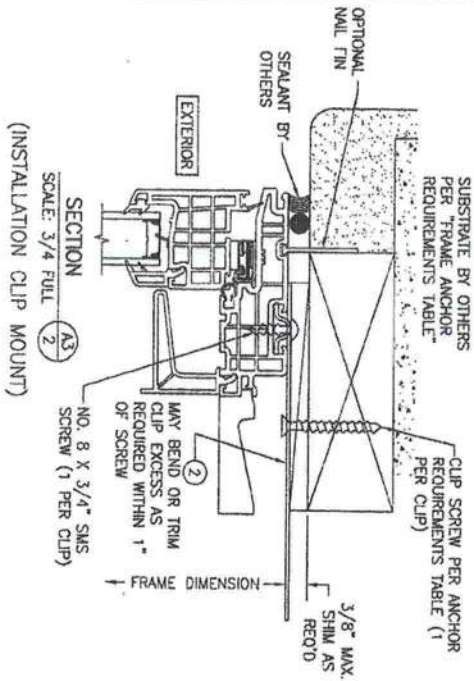
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 180TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

IMPACT OPERATING CASEMENT WINDOWS
MANUFACTURER
KOLBE WINDOWS & DOORS
1211 DEPOT STREET
MANAWA, WI 54949
(920) 586-2501

[illegible]



② INSTALLATION CLIP
MIN. 50 KSI GALV. STEEL



DRAWING NO. 1979 SHEET NO. 2 OF 2	<table border="1"> <thead> <tr> <th>NO.</th><th>REVISION DESCRIPTION</th><th>BY</th><th>DATE</th></tr> </thead> <tbody> <tr> <td>1-18</td><td></td><td></td><td>05/17/90</td></tr> </tbody> </table>	NO.	REVISION DESCRIPTION	BY	DATE	1-18			05/17/90	DRAWING TITLE FORGENT SERIES NON-IMPACT OPERATING CASEMENT WINDOWS CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7400 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER KOLBE WINDOWS & DOORS 1211 DEPOT STREET MANAWA, WI 54949 (920) 596-2501	CERTIFICATION JUN 18 2020 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
NO.	REVISION DESCRIPTION	BY	DATE								
1-18			05/17/90								

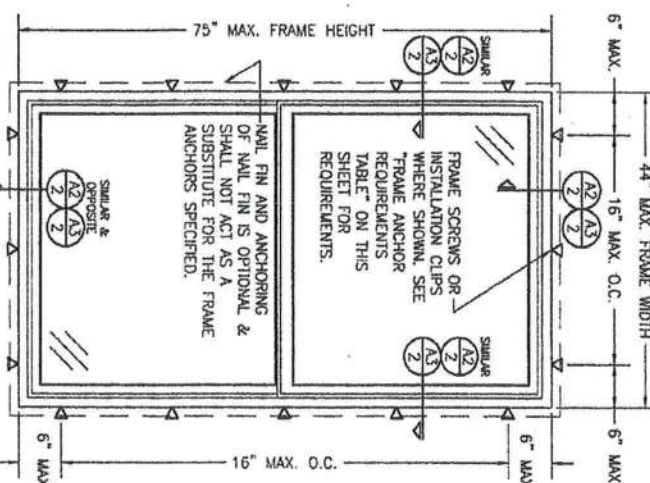
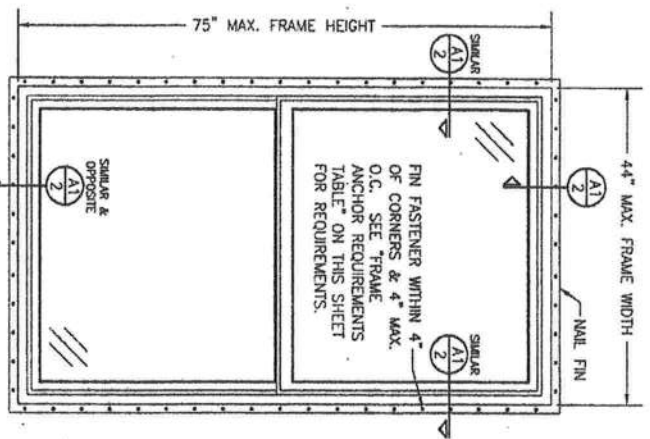
GENERAL NOTES:

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. THESE NON-IMPACT VIBED PRODUCT INSTALLATIONS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
5. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISJUNCT MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
6. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QUALITY ENTRY & SHALL BE LABELED IN ACCORDANCE WITH THE REGULATION SPECIFICATIONS. PRODUCT ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. CERTIFICATION OF THESE PRODUCT INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: (1) PRODUCT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. (2) PRODUCT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT. (3) IF CHANGES HAVE OCCURRED TO THE PRODUCTS CERTIFICATION ENTRY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INADEQUATE OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THESE DRAWINGS CARRY THE PRODUCT INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE EVALUATION REPORT IS FOR INFORMATION ONLY. THE EVALUATION REPORT IS NOT A CODE REVISION. CODE REVISIONS SHALL BE THE RESPONSIBILITY OF THE USER. THE EVALUATION REPORT IS NOT A CODE REVISION. CODE REVISIONS SHALL BE THE RESPONSIBILITY OF THE USER. THE EVALUATION REPORT IS NOT A CODE REVISION. CODE REVISIONS SHALL BE THE RESPONSIBILITY OF THE USER.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G-0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G-0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G-0.55)	11 GA. ROOFING NAIL	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"



EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 3/4" = 1'-0"
(FRAME SCREW AND CLIP MOUNT CONDITION)

WIDEN BUCKS FOR CLIP MOUNT AS REQUIRED TO MEET EDGE DISTANCE REQUIREMENTS.

NOTE: HOLES IN CLIPS MAY NEED TO BE WIDENED TO ACCOMMODATE 1/4" CONCRETE SCREWS.

ALLOWABLE DESIGN PRESSURE

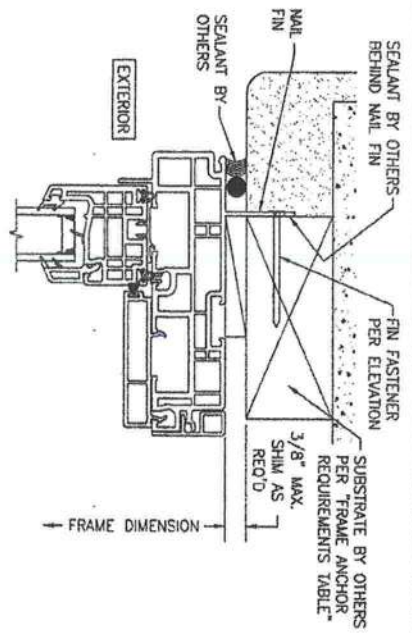
+/-50. PSF

ANCHOR/FASTENER EVALUATION NOTE:
ANCHOR/FASTENER EVALUATION NOTE: THESE ANCHOR/FASTENERS HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARDS AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE CONDITIONS OF THIS DOCUMENT. ANY SUBSTITUTES OR CHANGES OUTSIDE OF WHAT IS SHOWN HEREIN SHALL BE SUBJECT TO JOE SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

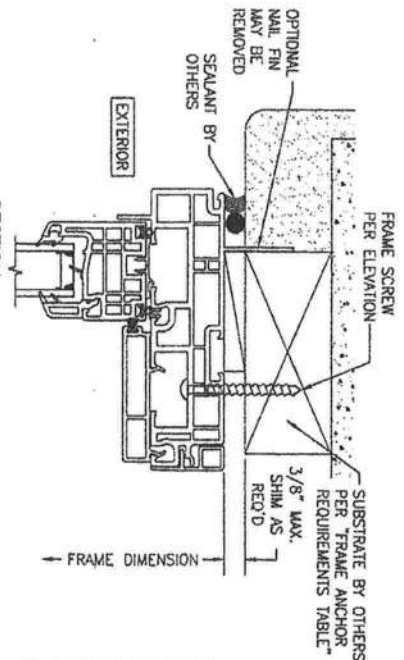
INSTALLATION NOTE:
WHEN NECESSARY, INSTALLATION METHODS MAY BE MODIFIED WITH ANY ONE WINDOW SUCH THAT REMAINS WITHIN THE SAME PRODUCT LINE OR THE OTHER ANCHOR METHOD (EXAMPLE: ALL MAY USE FRAME SCREWS METHOD WHILE OTHER SIZES USE FIN).

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED AND NOT TO ANY OTHER PRODUCT. THEY MAY BE USED FOR NATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER SHOWN ON THESE DRAWINGS.

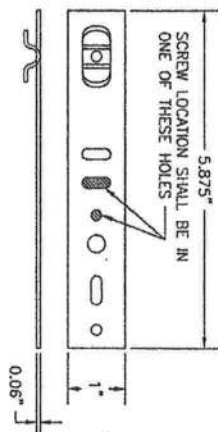
DRAWING NO. 2004 SHEET NO. 1 OF 2	DATE AUG 16 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	CERTIFICATION		DRAWING TITLE FORGENT SERIES NON-IMPACT DOUBLE HUNG WINDOWS		NO. REVISION DESCRIPTION BY DATE		DRAWN BY T.M.B. DATE 08/16/21	CHECKED BY S.M.B.
				CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424		MANUFACTURER KOLBE WINDOWS & DOORS 1211 DEPOT STREET MANAWA, WI 54949 (920) 596-2501			



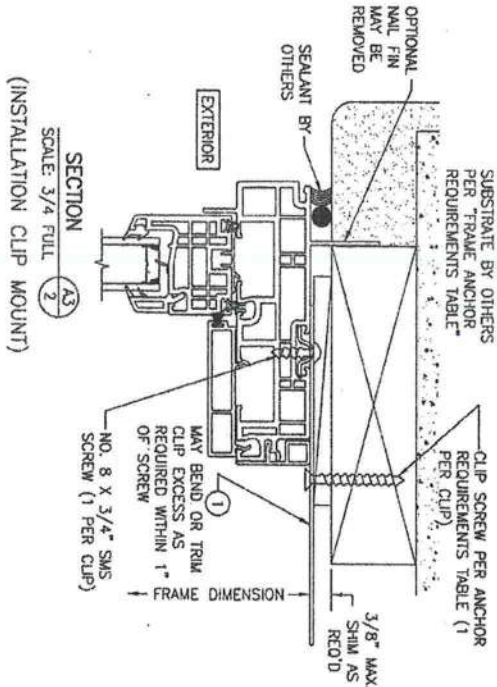
SECTION A1
SCALE: 3/4 FULL
(NAIL FIN MOUNT)



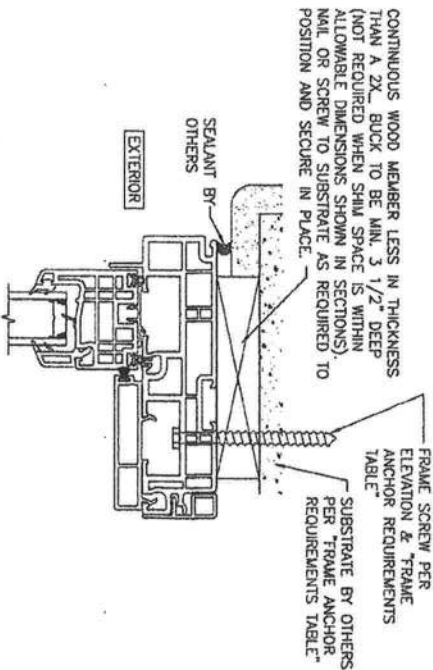
SECTION A2
SCALE: 3/4 FULL
(FRAME SCREW MOUNT)



① INSTALLATION CLIP
MIN. 50 KSI CALV. STEEL



SECTION A3
SCALE: 3/4 FULL
(INSTALLATION CLIP MOUNT)



OPTIONAL DIRECT MOUNT DETAIL
TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN; SILL & SHOES ARE INSTALLED THE SAME)

NO.	REVISION DESCRIPTION	BY	DATE

CERTIFICATION AUG 16 2021 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING TITLE FORGENT SERIES NON-IMPACT DOUBLE HUNG WINDOWS CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424	MANUFACTURER KOLBE WINDOWS & DOORS 1211 DEPOT STREET MANAWA, WI 54949 (920) 596-2501
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DRAWING NO.	1867
SHEET NO.	2 OF 2