



Product Approval
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OFFICE OF THE SECRETARY

FL #	FL17726-R4	
Application Type	Revision	
Code Version	2017	
Application Status	Approved	
Comments		
Archived	<input type="checkbox"/>	
Product Manufacturer	La Finestra, LC	
Address/Phone/Email	2790 NW 104th Court Miami, FL 33172 (305) 599-8093 brunosalvoni@lafinestra.us	
Authorized Signature	Bruno Salvoni brunosalvoni@lafinestra.us	
Technical Representative		
Address/Phone/Email		
Quality Assurance Representative		
Address/Phone/Email		
Category	Exterior Doors	
Subcategory	Sliding Exterior Door Assemblies	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Frank L. Bennardo, P.E.	
Florida License	PE-0046549	
Quality Assurance Entity	National Accreditation and Management Institute	
Quality Assurance Contract Expiration Date	04/30/2018	
Validated By	Troy Bishop, P.E. <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received	
Certificate of Independence	FL17726 R4 COI Indep.pdf	
Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1300	2004
	ASTM E1886	2013
	ASTM E1996	2014
	ASTM E330	2014
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method

Method 1 Option D

Date Submitted

12/18/2017

Date Validated

12/29/2017

Date Pending FBC Approval

12/29/2017

Date Approved

02/13/2018

Summary of Products

FL #	Model, Number or Name	Description
17726.1	Series EKU-9000 Sliding Glass Door	Series EKU-9000 Sliding Glass Door Large & Small Missile Impact Resistant
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +100/-135 Other:		Installation Instructions FL17726_R4_II_Dwg.pdf Verified By: Frank L. Bennardo, P.E. PE0046549 Created by Independent Third Party: Yes Evaluation Reports FL17726_R4_AF_Eval_.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



Product Evaluation Report

December 29, 2017

Application Number: FL#17726.1-R4
EX Project Number: 15-2257

Product Manufacturer: La Finestra, LC
Manufacturer Address: 2790 NW 104TH Court.
Miami, FL 33172

Product Name & Description: Series EKU-9000 Sliding Glass Door
Large & Small Missile Impact Resistant

Scope of Evaluation:

This Product Evaluation Report is being issued in accordance with the requirements of the Florida Department of Business and Professional Regulation (Florida Building Commission) Rule Chapter 61G20-3.005, F.A.C., for statewide acceptance per Method 1(d). The product noted above has been tested and/or evaluated as summarized herein to show compliance with the Florida Building Code Sixth Edition (2017) and is, for the purpose intended, at least equivalent to that required by the Code. Re-evaluation of this product shall be required following pertinent Florida Building Code modifications or revisions.

Substantiating Data:

- **PRODUCT EVALUATION DOCUMENTS**

EX drawing #15-2257 titled "Series EKU-9000 Sliding Glass Door", sheets 1- 28, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

- **TEST REPORTS**

Uniform static structural performance has been tested in accordance with TAS 202 & ASTM E330-14 test standards per test report(s) HETI-14-5042, HETI-15-5044, HETI-15-5128, HETI-15-5120 by Hurricane Engineering and Testing, Inc. Signed and sealed by Rafael E. Droz-Seda, P.E.

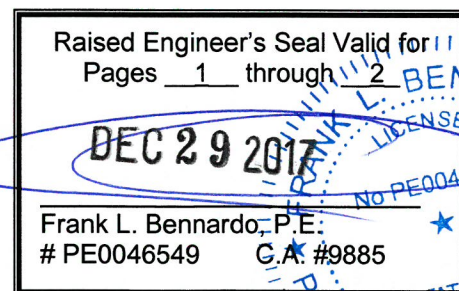
Large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201 & 203 and ASTM E 1886-13a & ASTM E 1996-14 test standards per test report(s) HETI-15-5046, HETI-14-5050, HETI-15-5129, HETI-15-5121 by Hurricane Engineering and Testing, Inc. Signed and sealed by Rafael E. Droz-Seda, P.E.

- **STRUCTURAL ENGINEERING CALCULATIONS**

Structural engineering calculations have been prepared which evaluate the product based on comparative and/or rational analysis to qualify the following design criteria:

1. Anchor Spacing
2. Maximum Allowable Size/Pressure Combinations
3. Glass Capacity
4. Anchor Capacity

No 33% increase in allowable stress has been used in the design of each product.



The following are approved for use in the HVHZ as specified in their corresponding NOAs:

- SentryGlas Interlayer by Kuraray America , Inc. (NOA #14-0916.11)

Impact Resistance:

Large and Small Missile Impact Resistance has been demonstrated as evidenced in previously listed test reports, and is accounted for in the engineering design of this product.

Wind Load Resistance

Each product has been designed to resist wind loads as indicated in the design schedule(s) on its respective Product Evaluation Document (i.e. engineering drawing).

Installation

Each product listed above shall be installed in strict compliance with its respective Product Evaluation Document (i.e. engineering drawing), along with all components noted therein.

Each product component shall be of the material specified in that product's respective Product Evaluation Document (i.e. engineering drawing).

Limitations & Conditions of Use:

Use of each product shall be in strict accordance with its respective Product Evaluation Document (i.e. engineering drawing) as noted herein.

All supporting host structures shall be designed to resist all superimposed loads and shall be of a material listed in each product's respective anchor schedule. Host structure conditions which are not accounted for in each product's respective anchor schedule shall be designed for on a site-specific basis by a registered professional engineer.

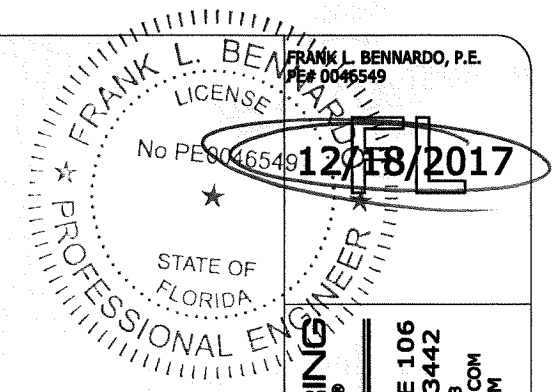
All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

Each product has been designed for use within and outside of the High Velocity Hurricane Zone (HVHZ).

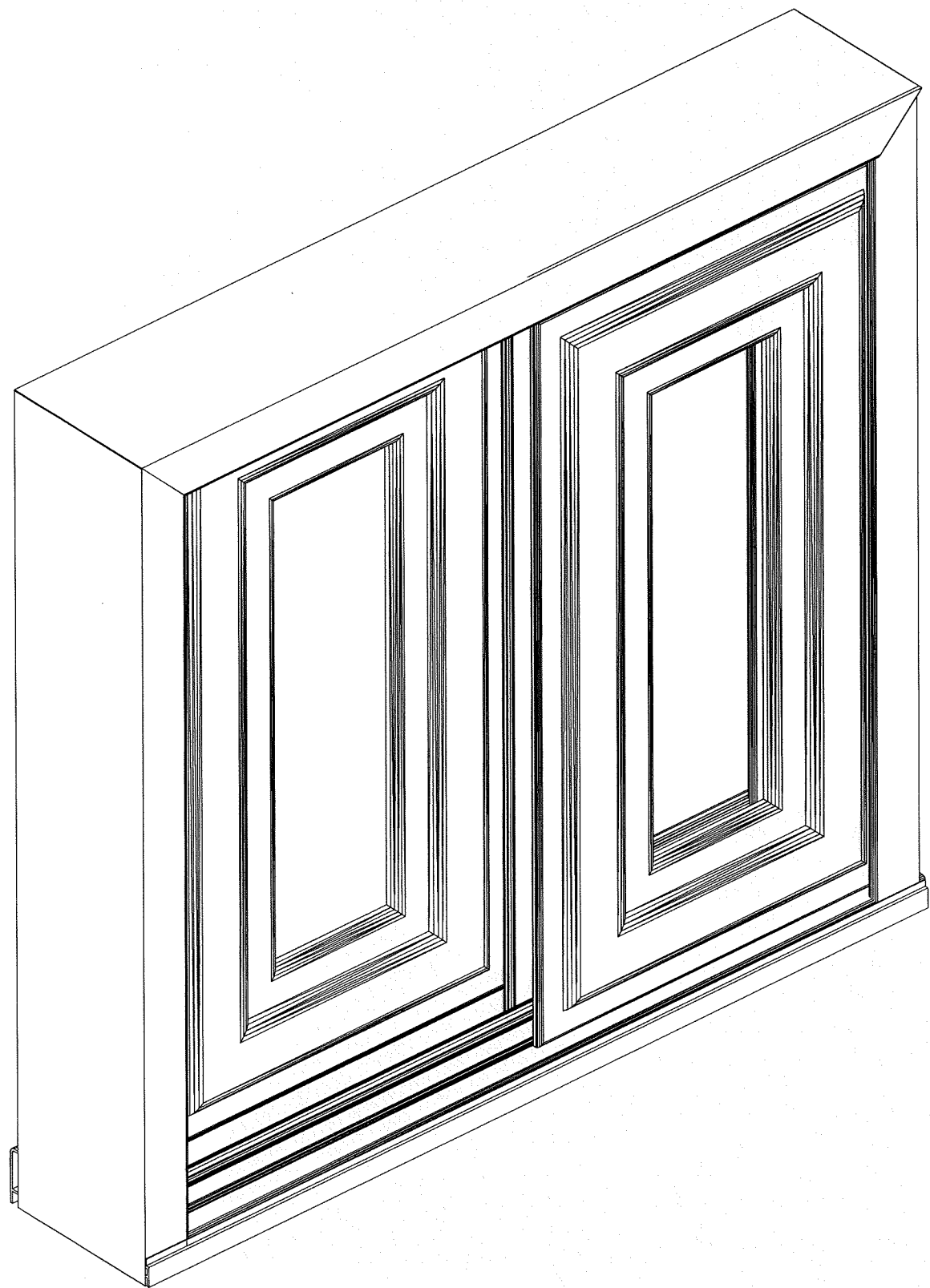
LA FINESTRA, LC

SERIES EKU-9000 SLIDING GLASS DOOR

LARGE AND SMALL MISSILE LEVEL "D" IMPACT RESISTANT



ENGINEERING EXPRESS®
 CORPORATE OFFICE:
 160 SW 12TH AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM
 CERT OF AUTH #9885



SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2	ELEVATION
3-5	LOADING TABLES
6	ANCHOR LAYOUTS
7	GLASS TYPES
8	2 TRACK SECTIONS
9	3 TRACK SECTIONS
10	4 TRACK SECTIONS
11	2,3 & 4 TRACK SECTIONS
12-14	2 TRACK ANCHORING
15-17	3 TRACK ANCHORING
18-21	4 TRACK ANCHORING
22	TRACK CONFIGURATIONS
23	FRAME ASSEMBLY
24-27	EXTRUSIONS
28	BILL OF MATERIALS
28	TOTAL

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER ASTM E1300-04 & TAS 201/202/203 STANDARDS AS QUALIFIED IN TEST REPORTS HETI-15-5044, HETI-14-5050, HETI-14-5042, HETI-15-5046, HETI-15-5120, HETI-15-5121, HETI-15-5128 & HETI-15-5129 BY HURRICANE ENGINEERING & TESTING INC.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. SITE SPECIFIC WIND LOAD REQUIREMENTS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND THE FLORIDA BUILDING CODE BY SEPARATE ENGINEERING CERTIFICATION AND SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUE LISTED HEREIN FOR ANY ASSEMBLY WITHIN THE LIMITATIONS STATED HEREIN.
4. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
5. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. MULTIPLE UNITS MUST BE INSTALLED USING STRUCTURAL MULLIONS APPROVED BY OTHERS OR UNDER SEPARATE CERTIFICATION.
7. ALL EXTRUSIONS SHALL BE 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
8. EXTERIOR SEAM OF FRAME CORNERS SHALL BE SEALED WITH PECORA 895 SEALANT.
9. ALL FASTENERS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM ULTIMATE TENSILE STRENGTH Fu=74 KSI, UNLESS NOTED OTHERWISE. ULTRACONS AND DRIL-FLEX FASTENERS REFERENCED HEREIN SHALL BE BY ELCO CONSTRUCTION PRODUCTS WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF Fu=177 KSI & Fu=120 KSI, RESPECTIVELY.
10. ALL DISSIMILAR MATERIALS SHALL BE PAINTED OR PLATED TO PREVENT CORROSION OR ELECTROLYSIS.
11. GLAZING ILLUSTRATED HEREIN UTILIZES SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (NOA# 14-0916.11).
12. THIS PRODUCT IS APPROVED FOR LARGE MISSILE & SMALL MISSILE IMPACT APPLICATIONS. SEE GLASS TYPES FOR ANY RESTRICTIONS.
13. MEANS OF EGRESS AND SAFEGUARD REQUIREMENTS ARE NOT ADDRESSED IN THIS APPROVAL AND SHALL BE CERTIFIED BY OTHERS.
14. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
15. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
16. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093

EKU-9000 SLIDING GLASS DOOR
 2017 FLORIDA BUILDING CODE UPDATE

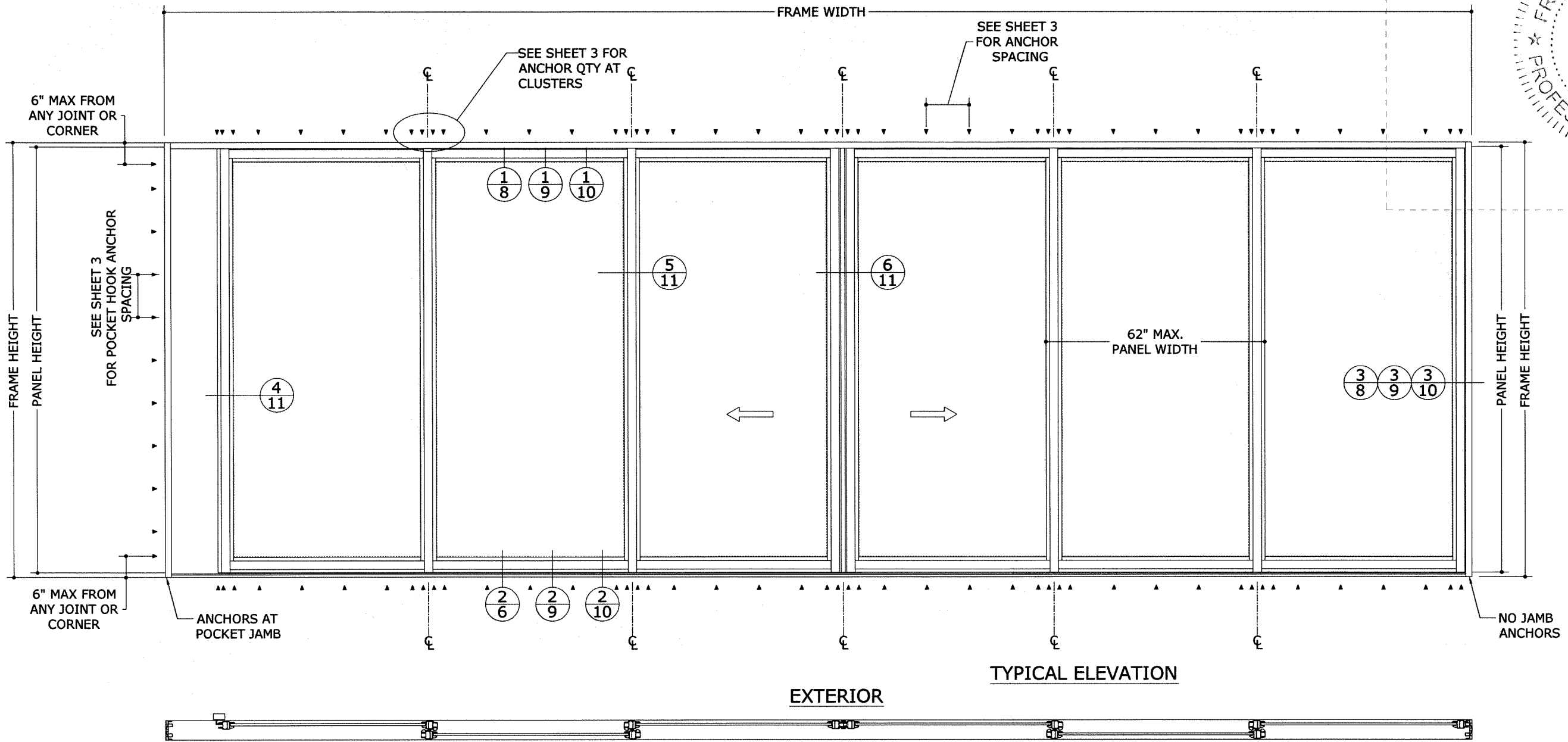
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	12/18/15
REV. 3	JEM	FLB	04/20/16
2017 FBC UPDATE	JEM	AJP	12/18/17

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FL #17726.1

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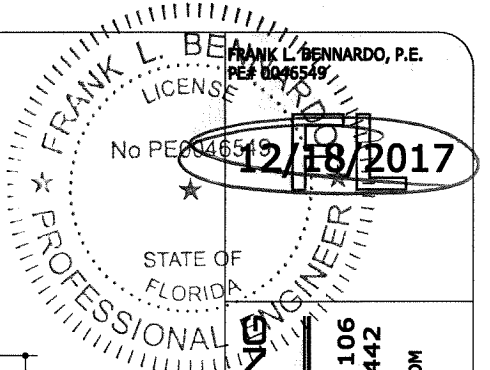
PLAN VIEW

▲ ANCHOR LOCATIONS SEE PAGES 3, 4 & 5 FOR SPACING AND QUANTITIES

NOTE: THE FRAMNG SYSTEM IS APPROVED WITHOUT JAMB ANCHORS. THE GAP BETWEEN FRAME AND SUBSTRATE NEEDS TO BE COORDINATED WITH SEALANT MANUFACTURER.

MAX. FRAME SIZES	
WIDTH (In.)	HEIGHT (In.)
807	80
768	84
717	90
672	96
633	102
598	108
566	114
538	120
512	126
489	132
468	138
448	144

PER SECTION 2411.3.2.4



ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
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LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093
 EKV-9000 SLIDING GLASS DOOR
 2017 FLORIDA BUILDING CODE UPDATE

REMARKS	DRWN	CHKD	DATE
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LOADING & ANCHOR CAPACITY (PSF)						
NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	80"	100	135	3	2	2
30"		100	135	3	2	2
36"		100	135	4	2	2
42"		100	135	4	2	3
48"		100	135	4	2	3
52"		100	135	5	2	3
60"		100	135	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	84"	100	135	3	2	2
30"		100	135	3	2	2
36"		100	135	4	2	2
42"		100	135	4	2	3
48"		100	135	5	2	3
52"		100	135	5	2	3
60"		100	135	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	88"	100	135	3	2	2
30"		100	135	4	2	2
36"		100	135	4	2	3
42"		100	135	5	2	3
48"		100	135	5	2	3
52"		100	135	5	2	3
60"		100	135	6	3	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	92"	100	135	3	2	2
30"		100	135	4	2	2
36"		100	135	4	2	3
42"		100	135	5	2	3
48"		100	135	5	2	3
52"		100	135	6	3	3
60"		100	135	6	3	4
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	96"	100	135	3	2	2
30"		100	135	4	2	2
36"		100	135	5	2	3
42"		100	135	5	2	3
48"		100	135*	5	3	3
52"		100	135*	6	3	4
60"		70	80	6	3	4
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	100"	70	80	2	2	2
30"		70	80	3	2	2
36"		70	80	3	2	2
42"		70	80	3	2	2
48"		70	80	4	2	2
52"		70	80	4	2	2
60"		70	80	4	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	

NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	104"	70	80	2	2	2
30"		70	80	3	2	2
36"		70	80	3	2	2
42"		70	80	3	2	2
48"		70	80	4	2	2
52"		70	80	4	2	2
60"		70	80	4	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	108"	70	80	2	2	2
30"		70	80	3	2	2
36"		70	80	3	2	2
42"		70	80	4	2	2
48"		70	80	4	2	2
52"		70	80	4	2	3
60"		70	80	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	112"	70	80	3	2	2
30"		70	80	3	2	2
36"		70	80	3	2	2
42"		70	80	4	2	2
48"		70	80	4	2	3
52"		70	80	4	2	3
60"		70	80	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	116"	70	80	3	2	2
30"		70	80	3	2	2
36"		70	80	4	2	2
42"		70	80	4	2	2
48"		70	80	4	2	3
52"		70	80	5	2	3
60"		70	80	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	119 1/4"	70	80	3	2	2
30"		70	80	3	2	2
36"		70	80	4	2	2
42"		70	80	4	2	2
48"		70	80	4	2	3
52"		70	80	5	2	3
60"		70	80	5	2	3
66"		-	-	-	-	-
72"	-	-	-	-	-	

REQ'D MAX SPACING BETWEEN CLUSTERS (HEAD/SILL)

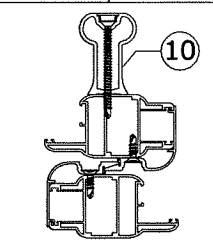
PRESSURES	WOOD (WA)	CONC. (CA)	METAL (MA)
UP TO 80 PSF	12"	12"	12"
80 PSF TO 135 PSF	9"	10"	10"

REQ'D MAX SPACING FOR POCKET HOOK STRIP ANCHORS

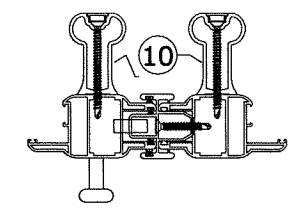
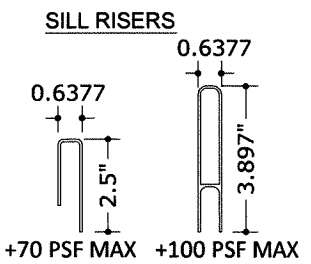
ALL SIZES	WOOD (WA)	CONC. (CA)	METAL (MA)
	6"	6"	6"

* LIMITED TO 120 PSF WHEN ANCHORING IS THRU THRESHOLD RISER AREA

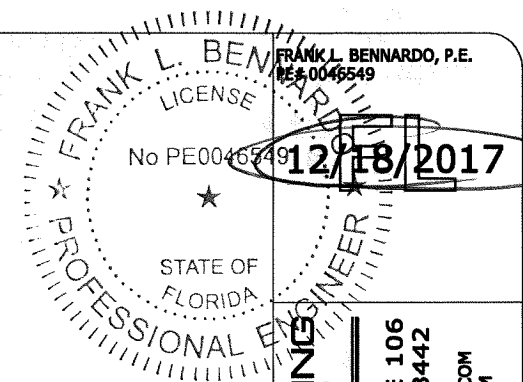
NOTE: SIZES ON CHARTS ARE PANEL DIMENSIONS ADD 2 1/4" TO HEIGHT OF PANEL FOR OVERALL FRAME HEIGHT



REINFORCEMENT 1 AT INTERLOCK



REINFORCEMENT 1 AT MEETING STILES



ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
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LA FINESTRA, LC
 2790 NW 104TH COURT
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EKU-9000 SLIDING GLASS DOOR
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DRWN	CHKD	DATE
JEM	AJP	12/18/15
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JEM	AJP	12/18/17

REMARKS
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LOADING & ANCHOR CAPACITY (PSF)						
NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	80"	75	75	2	2	2
30"		75	75	2	2	2
36"		75	75	2	2	2
42"		75	75	2	2	2
48"		75	75	3	2	2
52"		75	75	3	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	84"	75	75	2	2	2
30"		75	75	2	2	2
36"		75	75	2	2	2
42"		75	75	3	2	2
48"		75	75	3	2	2
52"		75	75	3	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	88"	75	75	2	2	2
30"		75	75	2	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	3	2	2
52"		75	75	3	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	92"	75	75	2	2	2
30"		75	75	2	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	3	2	2
52"		75	75	3	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	96"	75	75	2	2	2
30"		75	75	2	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	3	2	2
52"		75	75	3	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	100"	75	75	2	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	3	2	2
52"		75	75	4	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	

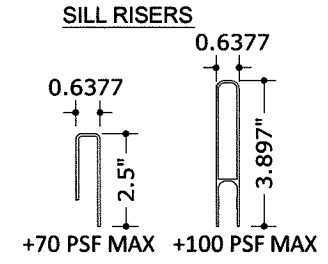
LOADING & ANCHOR CAPACITY (PSF)						
NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	104"	75	75	2	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	4	2	2
52"		75	75	4	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	108"	75	75	2	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	3	2	2
48"		75	75	4	2	2
52"		75	75	4	2	2
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	112"	75	75	2	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	4	2	2
48"		75	75	4	2	2
52"		75	75	4	2	3
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	116"	75	75	3	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	4	2	2
48"		75	75	4	2	2
52"		75	75	4	2	3
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	
24"	119 1/4"	75	75	3	2	2
30"		75	75	3	2	2
36"		75	75	3	2	2
42"		75	75	4	2	2
48"		75	75	4	2	3
52"		75	75	4	2	3
60"		-	-	-	-	-
66"		-	-	-	-	-
72"	-	-	-	-	-	

REQ'D MAX SPACING BETWEEN CLUSTERS (HEAD/SILL)

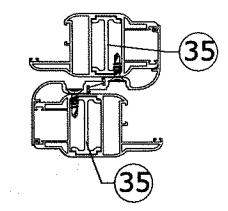
PRESSURES	WOOD (WA)	CONC. (CA)	METAL (MA)
UP TO 80 PSF	12"	12"	12"
80 PSF TO 135 PSF	9"	10"	10"

REQ'D MAX SPACING FOR POCKET HOOK STRIP ANCHORS

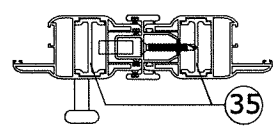
ALL SIZES	WOOD (WA)	CONC. (CA)	METAL (MA)
	6"	6"	6"



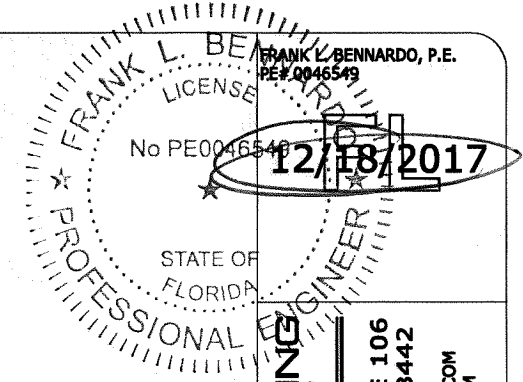
NOTE: SIZES ON CHARTS ARE PANEL DIMENSIONS ADD 2 1/4" TO HEIGHT OF PANEL FOR OVERALL FRAME HEIGHT



REINFORCEMENT 2 AT INTERLOCK



REINFORCEMENT 2 AT MEETING STILES



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 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
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LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093
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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	JEM	AJP	12/18/15
REV. 3	JEM	FLB	04/20/16
2017 FBC UPDATE	JEM	AJP	12/18/17

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LOADING & ANCHOR CAPACITY (PSF)

NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	80"	70	100	2	2	2
30"		70	100	3	2	2
36"		70	100	3	2	2
42"		70	100	3	2	2
48"		70	100	3	2	2
52"		70	95	3	2	2
62"		69	79	3	2	2
66"		65	75	3	2	2
72"		60	68	3	2	2
24"		84"	70	100	2	2
30"	70		100	3	2	2
36"	70		100	3	2	2
42"	70		100	3	2	2
48"	70		100	4	2	2
52"	70		95	4	2	2
62"	69		79	3	2	2
66"	65		75	3	2	2
72"	60		68	3	2	2
24"	88"		70	100	2	2
30"		70	100	3	2	2
36"		70	100	3	2	2
42"		70	100	4	2	2
48"		70	100	4	2	2
52"		70	95	4	2	2
62"		70	80	4	2	2
66"		65	75	3	2	2
72"		60	68	3	2	2
24"		92"	70	100	3	2
30"	70		100	3	2	2
36"	70		100	3	2	2
42"	70		100	4	2	2
48"	70		100	4	2	2
52"	70		95	4	2	2
62"	70		80	4	2	2
66"	65		75	4	2	2
72"	60		68	3	2	2
24"	96"		70	100	3	2
30"		70	100	3	2	2
36"		70	100	4	2	2
42"		70	100	4	2	2
48"		70	100	4	2	3
52"		70	95	4	2	3
62"		70	80	4	2	2
66"		65	75	4	2	2
72"		60	68	4	2	2
24"		100"	70	100	3	2
30"	70		100	3	2	2
36"	70		100	4	2	2
42"	70		100	4	2	2
48"	70		100	4	2	3
52"	70		95	4	2	3
62"	69		79	4	2	3
66"	65		75	4	2	2
72"	60		68	4	2	2

NOMINAL DIMS

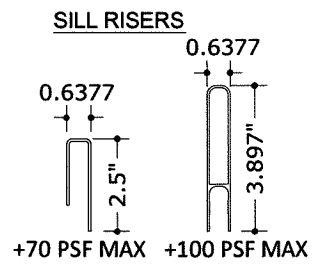
NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL				
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)
24"	104"	70	100	3	2	2
30"		70	100	3	2	2
36"		70	100	4	2	2
42"		70	100	4	2	3
48"		70	100	5	2	3
52"		70	95	5	2	3
62"		70	80	4	2	3
66"		65	75	4	2	2
72"		60	68	4	2	2
24"		108"	70	100	3	2
30"	70		100	3	2	3
36"	70		100	4	2	3
42"	70		100	4	2	3
48"	70		100	5	2	3
52"	70		95	5	2	3
62"	70		80	5	2	3
66"	65		75	4	2	3
72"	60		68	4	2	3
24"	112"		70	100	3	2
30"		70	100	4	2	2
36"		70	100	4	2	3
42"		70	100	5	2	3
48"		70	100	5	2	3
52"		70	95	5	2	3
62"		69	79	5	2	3
66"		65	75	5	2	3
72"		60	68	4	2	3
24"		116"	70	100	3	2
30"	70		100	4	2	2
36"	70		100	4	2	3
42"	70		100	5	2	3
48"	70		100	5	2	3
52"	70		95	5	2	3
62"	70		80	5	2	3
66"	65		75	5	2	3
72"	60		68	4	2	3
24"	119 1/4"		70	100	3	2
30"		70	100	4	2	2
36"		70	100	4	2	3
42"		70	100	5	2	3
48"		70	100	5	3	3
52"		70	95	5	3	3
62"		70	80	5	2	3
66"		65	75	5	2	3
72"		60	68	5	2	3
24"		126"	70	100	3	2
30"	70		100	4	2	2
36"	70		100	5	2	3
42"	70		100	5	2	3
48"	70		99	6	3	3
52"	70		93	6	3	3
62"	70		80	6	3	3
66"	65		75	5	3	3
72"	60		68	5	2	3

LOADING & ANCHOR CAPACITY (PSF)

NOMINAL DIMS		REQ'D ANCHORS AT CLUSTERS ON EACH SIDE OF VERTICAL					
PANEL WIDTH	PANEL HEIGHT	(+) P.S.F	(-) P.S.F	WOOD (WA)	CONC. (CA)	METAL (MA)	
24"	132"	70	100	4	2	2	
30"		70	100	4	2	3	
36"		70	100	5	2	3	
42"		70	100	5	3	3	
48"		70	98	6	3	4	
52"		70	92	6	3	4	
62"		70	80	6	3	3	
66"		65	75	6	3	3	
72"		-	-	-	-	-	-
24"		138"	70	100	4	2	2
30"	70		100	4	2	3	
36"	70		100	5	2	3	
42"	70		100	6	2	3	
48"	70		97	6	3	4	
52"	70		91	6	3	4	
62"	69		80	6	3	4	
66"	-		-	-	-	-	-
72"	-		-	-	-	-	-
24"	141 1/2"		70	100	4	2	2
30"		70	100	5	2	3	
36"		70	100	5	2	3	
42"		70	100	6	2	4	
48"		70	97	6	3	4	
52"		70	91	6	3	4	
62"		69	80	6	3	4	
66"		-	-	-	-	-	-
72"		-	-	-	-	-	-

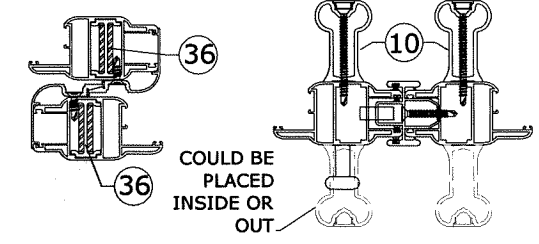
REQ'D MAX SPACING BETWEEN CLUSTERS (HEAD/SILL)

PRESSURES	WOOD (WA)	CONC. (CA)	METAL (MA)
UP TO 80 PSF	12"	12"	12"
80 PSF TO 135 PSF	9"	10"	10"



REQ'D MAX SPACING FOR POCKET HOOK STRIP ANCHORS

ALL SIZES	WOOD (WA)	CONC. (CA)	METAL (MA)
	6"	6"	6"



NOTE: SIZES ON CHARTS ARE PANEL DIMENSIONS ADD 2 1/4" TO HEIGHT OF PANEL FOR OVERALL FRAME HEIGHT

REINFORCEMENT 3 AT INTERLOCK

REINFORCEMENT 3 AT MEETING STILES

FRANK L. BERNARDO, P.E.
PE# 0045549

ENGINEERING EXPRESS
CORPORATE OFFICE: MAINT 106
DEERFIELD BEACH, FL 33442
P: (954) 354-0660 F: (954) 354-0443
E: HELLO@ENGINEERINGEXPRESS.COM
ENGINEERINGEXPRESS.COM
CERT OF AUTH #9885

LA FINESTRA, LC
2790 NW 104TH COURT
DORAL, FL
(305) 599-8093

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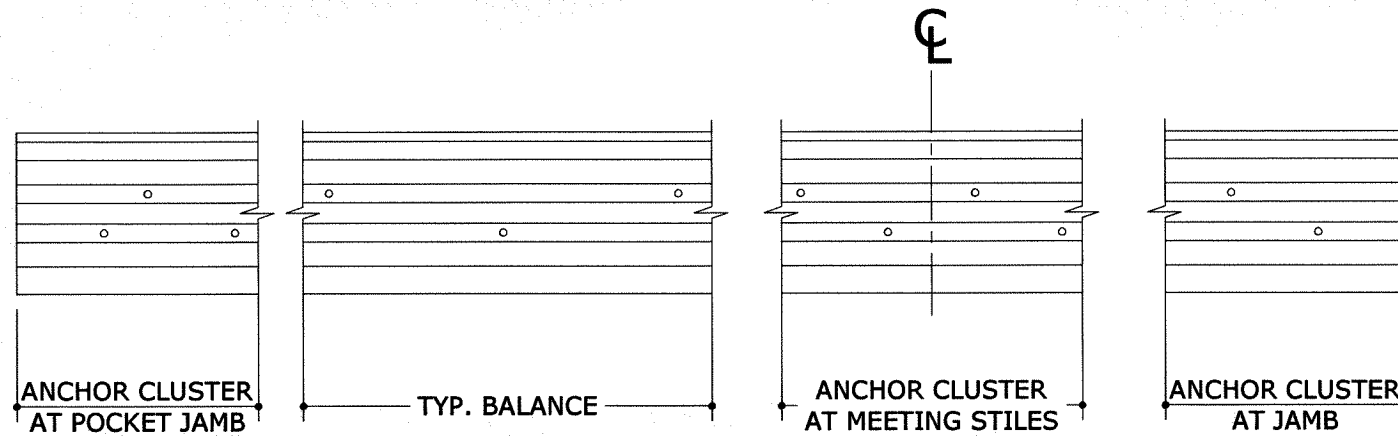
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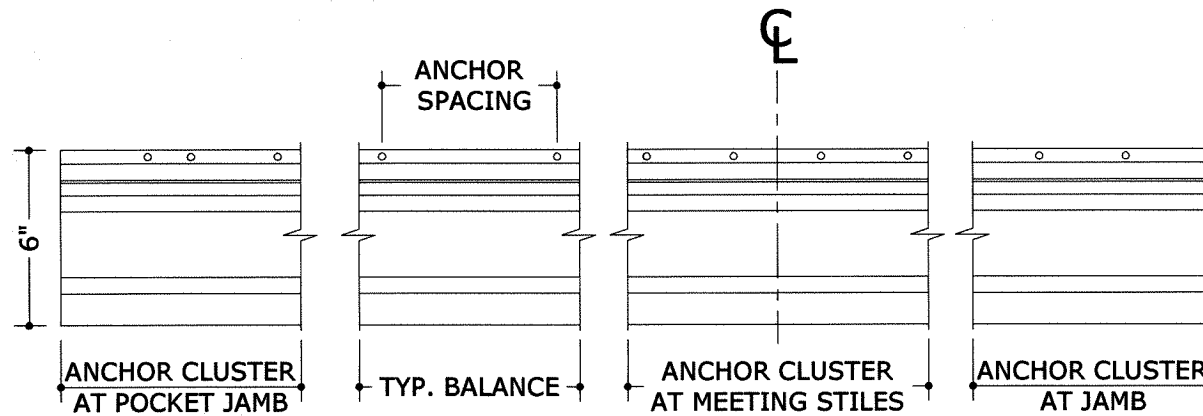
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DOOR HEADER ANCHOR LAYOUT



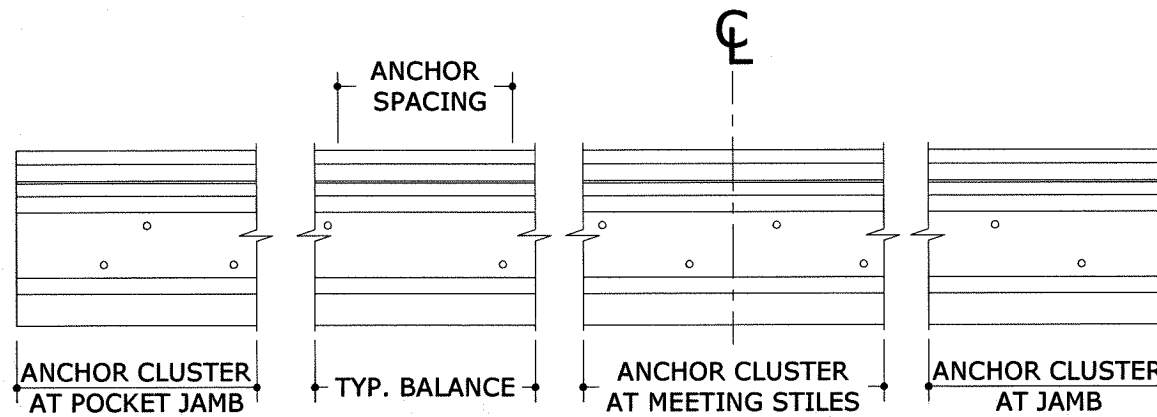
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DOOR SILL ANCHOR LAYOUT



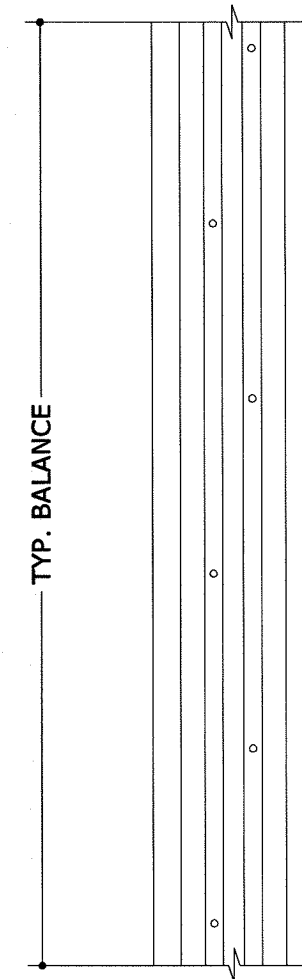
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ALTERNATE DOOR SILL ANCHOR LAYOUT



EXTERIOR

POCKET HOOK ANCHOR LAYOUT

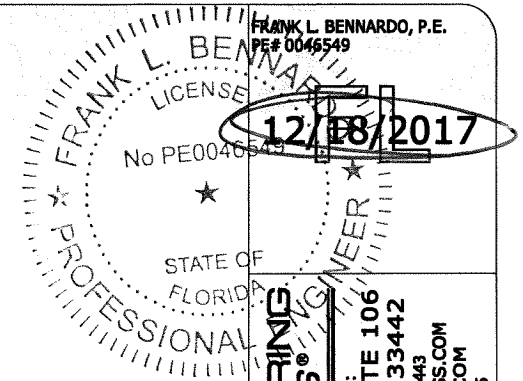


ANCHOR TYPES:

"CA": 1/4" ELCO ULTRACON, 1 3/4" EMBEDMENT INTO 2846PSI CONCRETE MIN. WITH 2 1/2" EDGE DISTANCE AND 3" MIN SPACING BETWEEN ANCHORS.

"WA": 1/4" ELCO ULTRACON, 1 1/2" MIN EMBEDMENT INTO SOUTHERN YELLOW PINE #2 WOOD WITH 1" MIN EDGE DISTANCE AND 1" MIN SPACING BETWEEN ANCHORS.

"MA": 1/4"-14 ELCO DRILLFLEX, INTO 1/8" ALUMINUM (6063-T5 MIN) OR 1/8" STEEL (A36 MIN), 7/8" MIN EDGE DISTANCE AND 1" MIN SPACING BETWEEN ANCHORS.



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 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM
 CERT OF AUTH #9885

LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093
 EKV-9000 SLIDING GLASS DOOR
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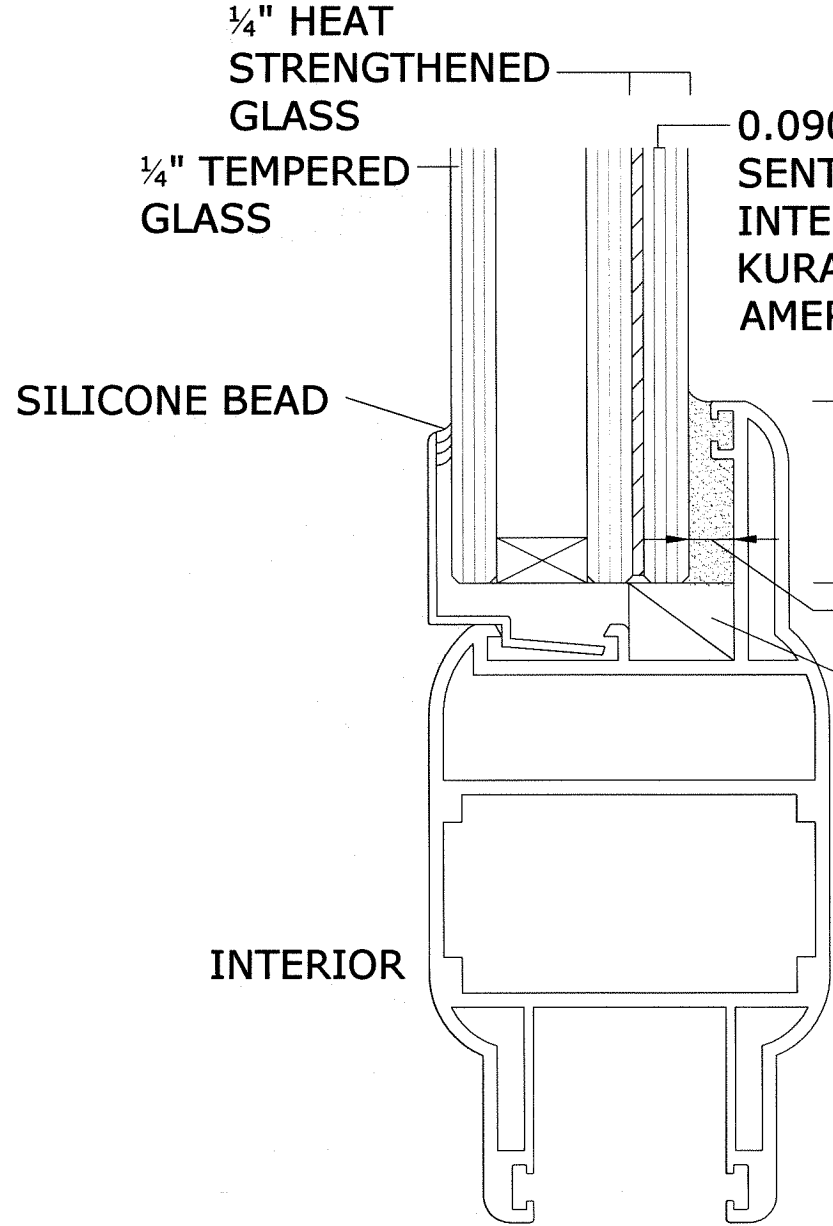
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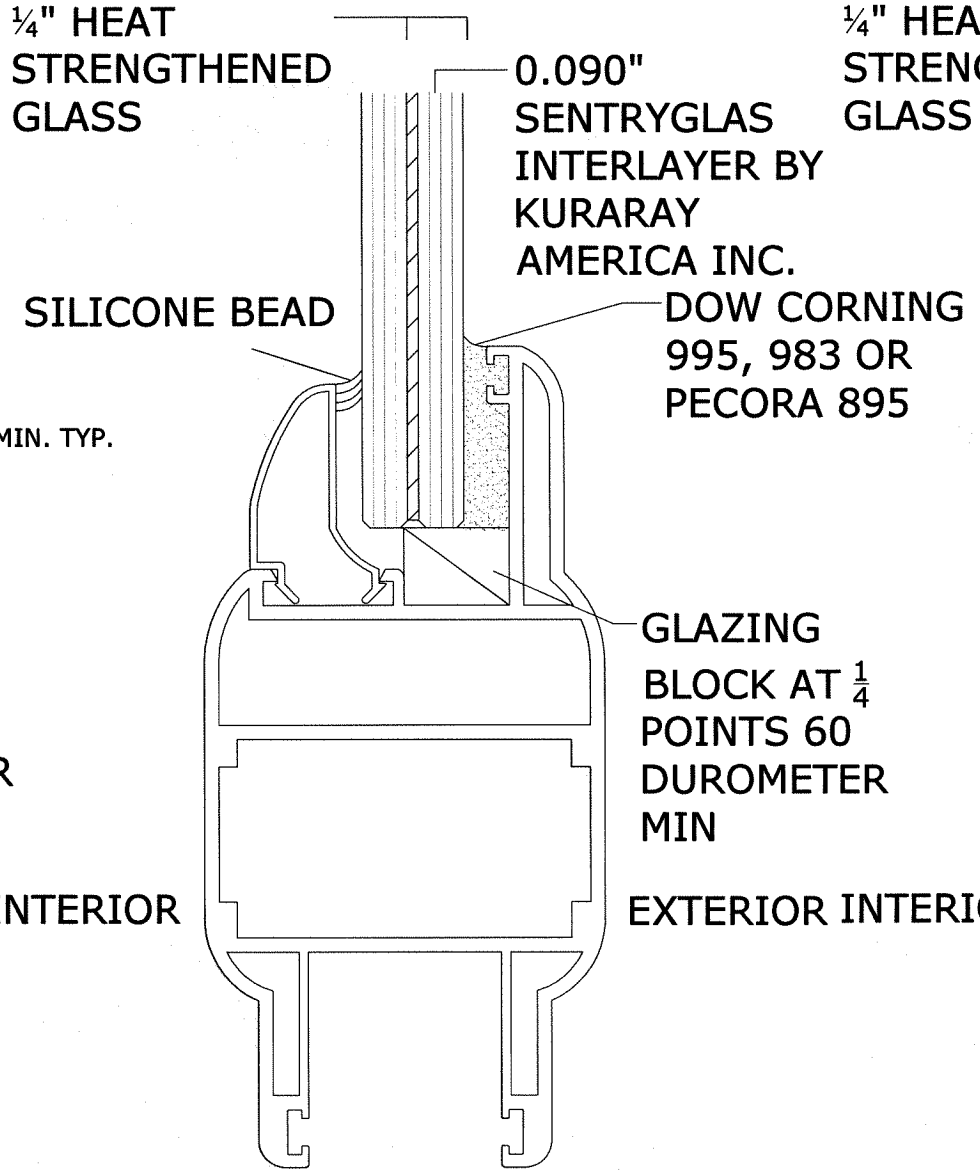
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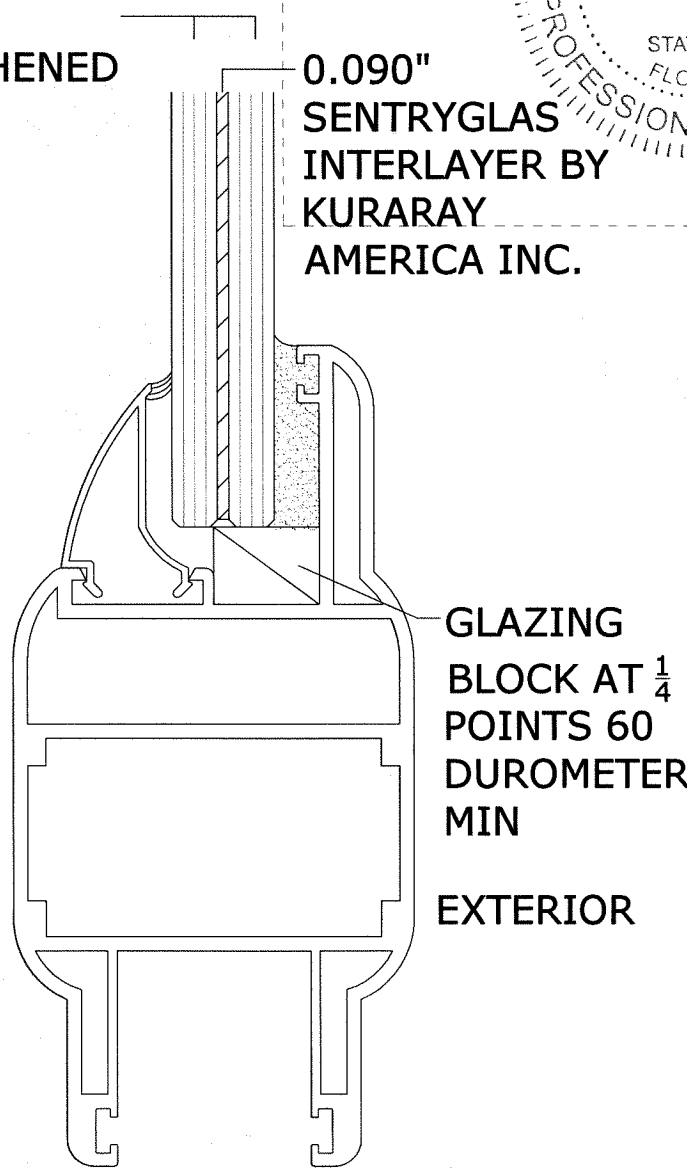


INTERIOR

EXTERIOR INTERIOR



EXTERIOR INTERIOR



EXTERIOR

FRANK L. BENNARDO, P.E.
 PE# 0046549
 LICENSE
 No PE00
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 12/18/2017

ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
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LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
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NOTES:
 REFER TO SHEET 3 FOR ALLOWABLE PRESSURES APPLICABLE FOR ALL GLASS TYPES HEREIN.
 EXTRUDED GLAZING BEADS ARE A NON-STRUCTURAL COMPONENT.
 ALL GLASS CAPACITIES HAVE BEEN DESIGNED PER ASTM E-1300-04

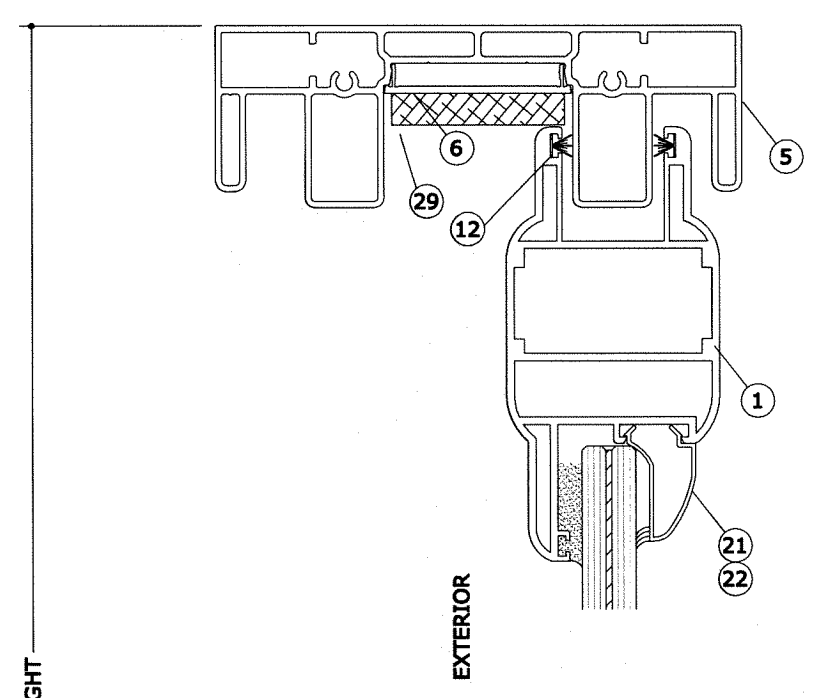
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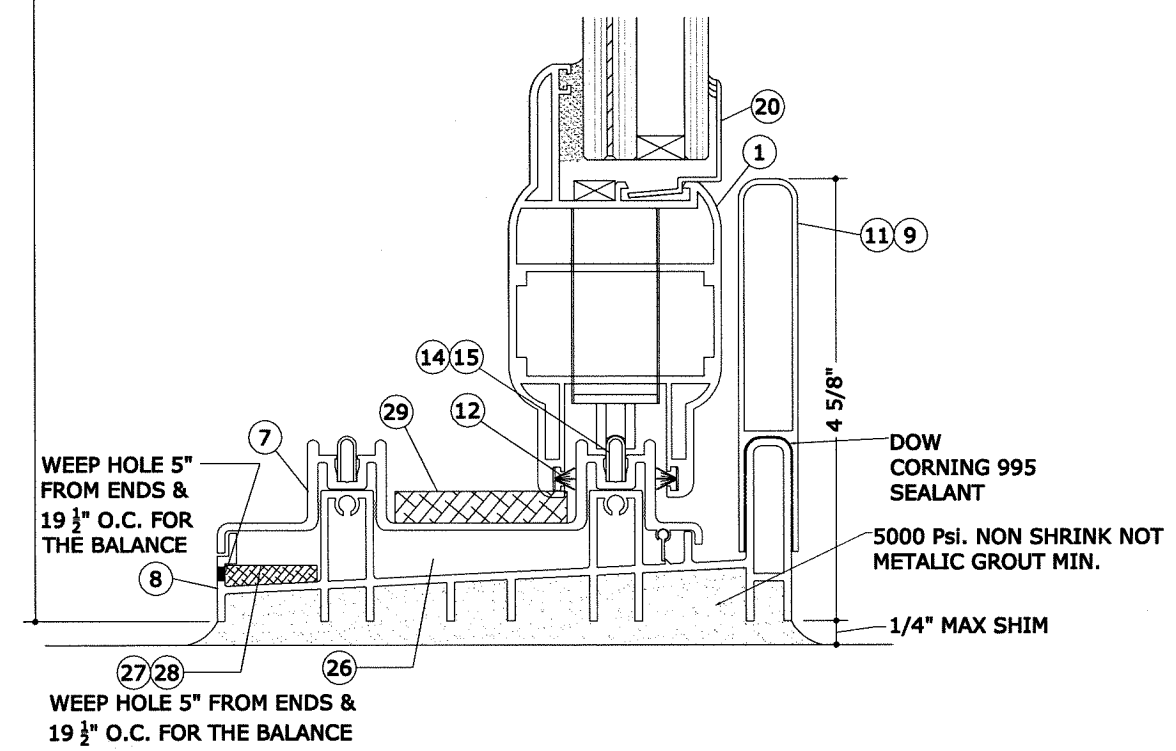
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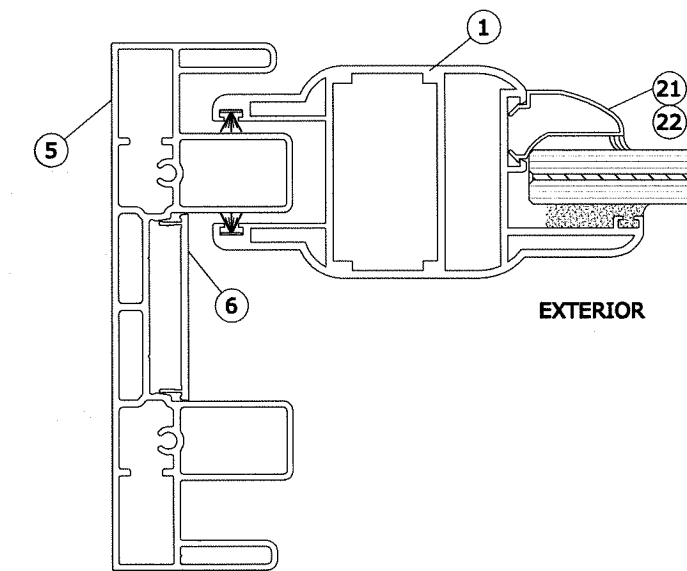
1 TYPICAL HEADER SECTION
8 6" = 1'-0" VERT SECT



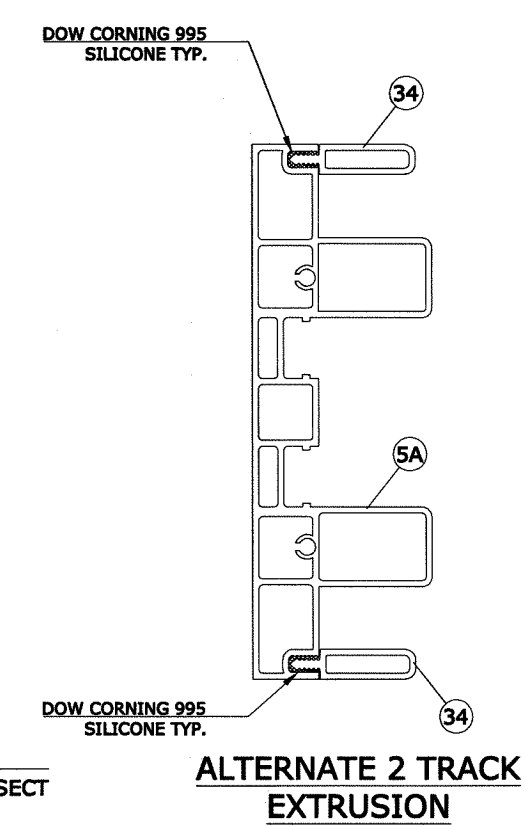
2 TRACK



2 TYPICAL SILL SECTION
8 6" = 1'-0" VERT SECT



3 TYPICAL JAMB SECTION
8 6" = 1'-0" VERT SECT



FRANK L. BENNARDO, P.E.
 PE# 0046549
 LICENSE
 No PE0046549
 12/18/2017
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
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LA FINESTRA, LC
 2790 NW 104TH COURT
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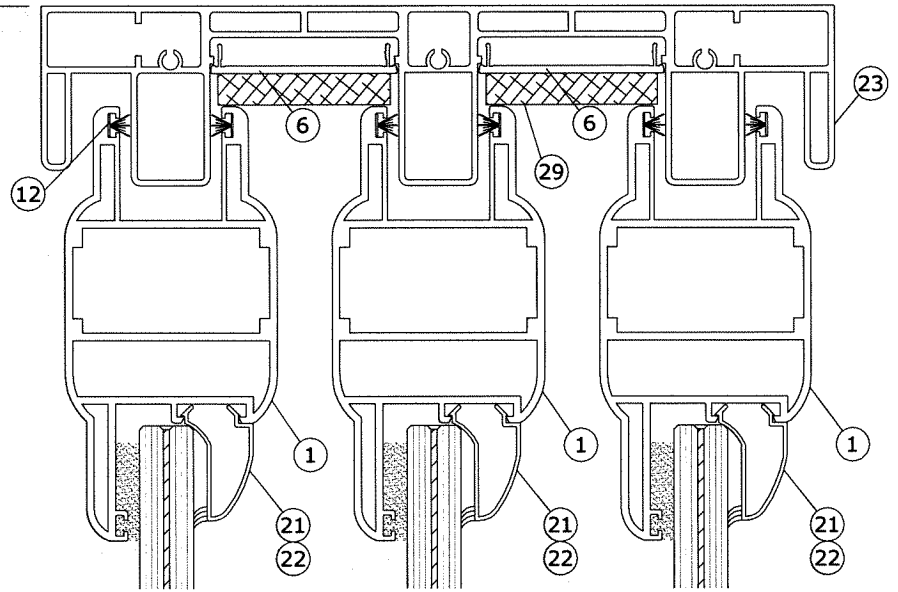
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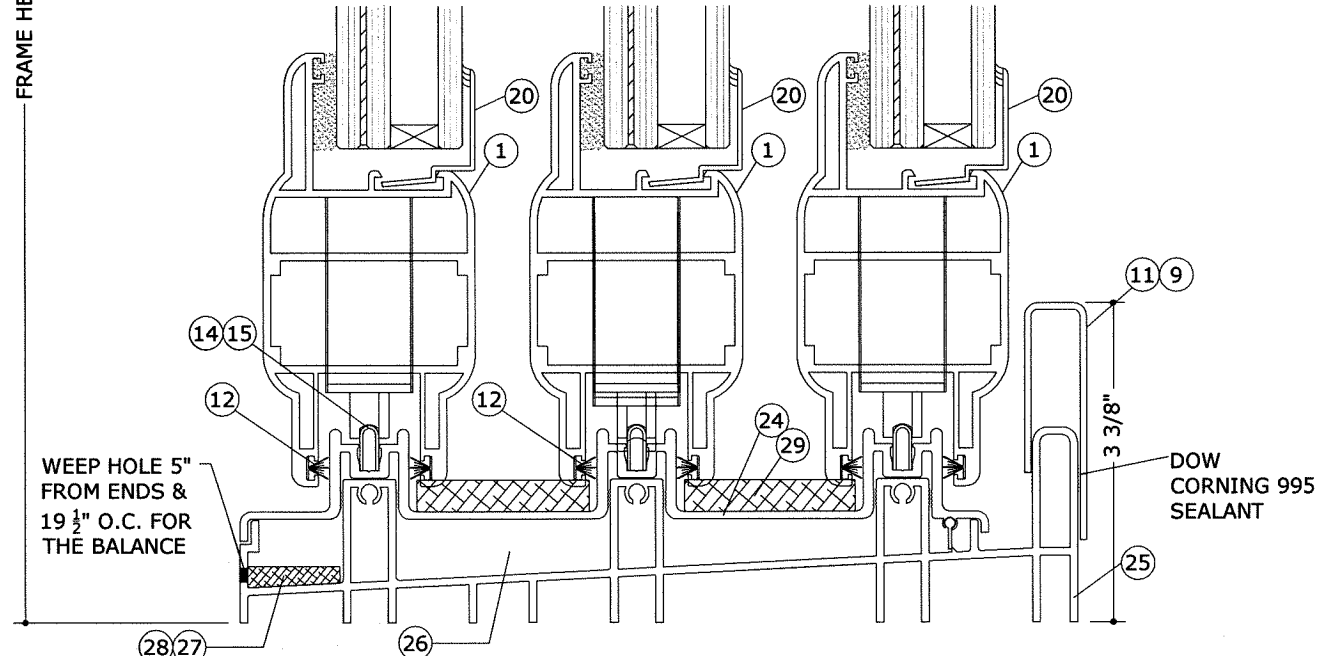
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1 TYPICAL HEADER SECTION
 7 6" = 1'-0" VERT SECT

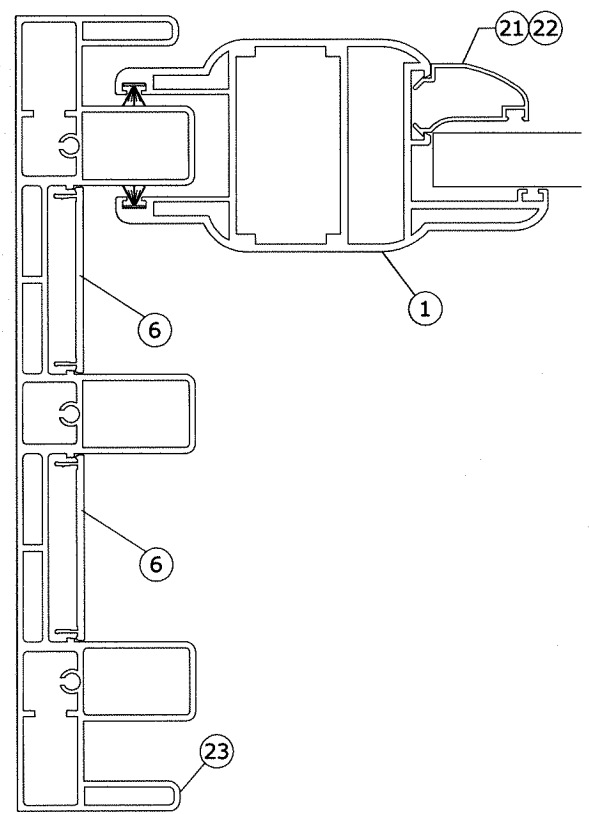


2 TYPICAL SILL SECTION
 7 6" = 1'-0" VERT SECT



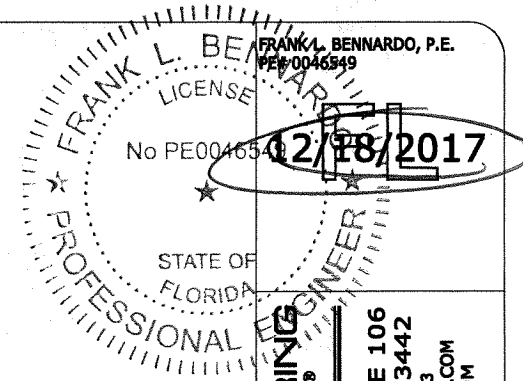
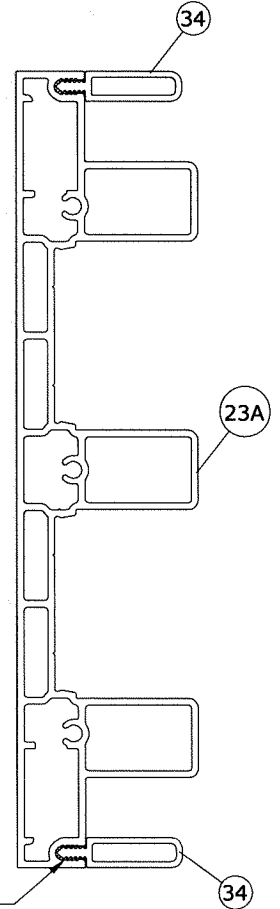
3 TRACK

3 TYPICAL JAMB SECTION
 7 6" = 1'-0" VERT SECT



DOW CORNING 995 SILICONE TYP.

ALTERNATE 3 TRACK EXTRUSION



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 CORPORATE OFFICE:
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 DEERFIELD BEACH, FL 33442
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 E: HELLO@ENGINEERINGEXPRESS.COM
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LA FINESTRA, LC
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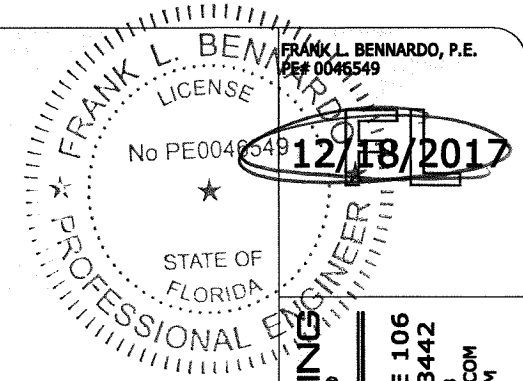
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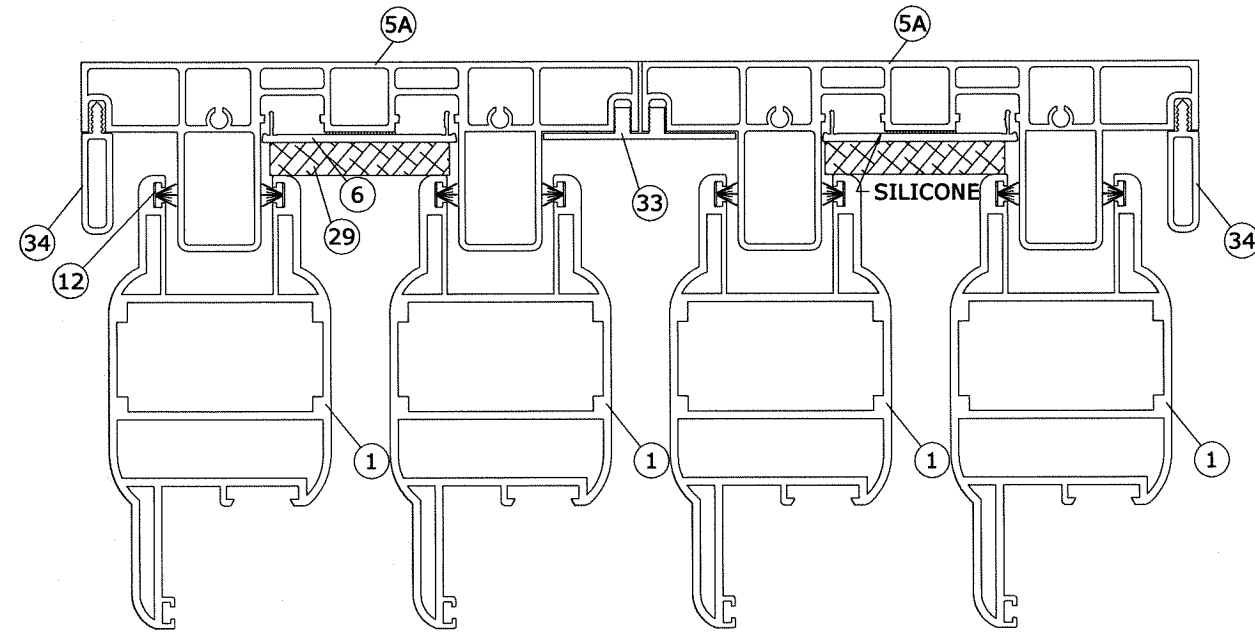
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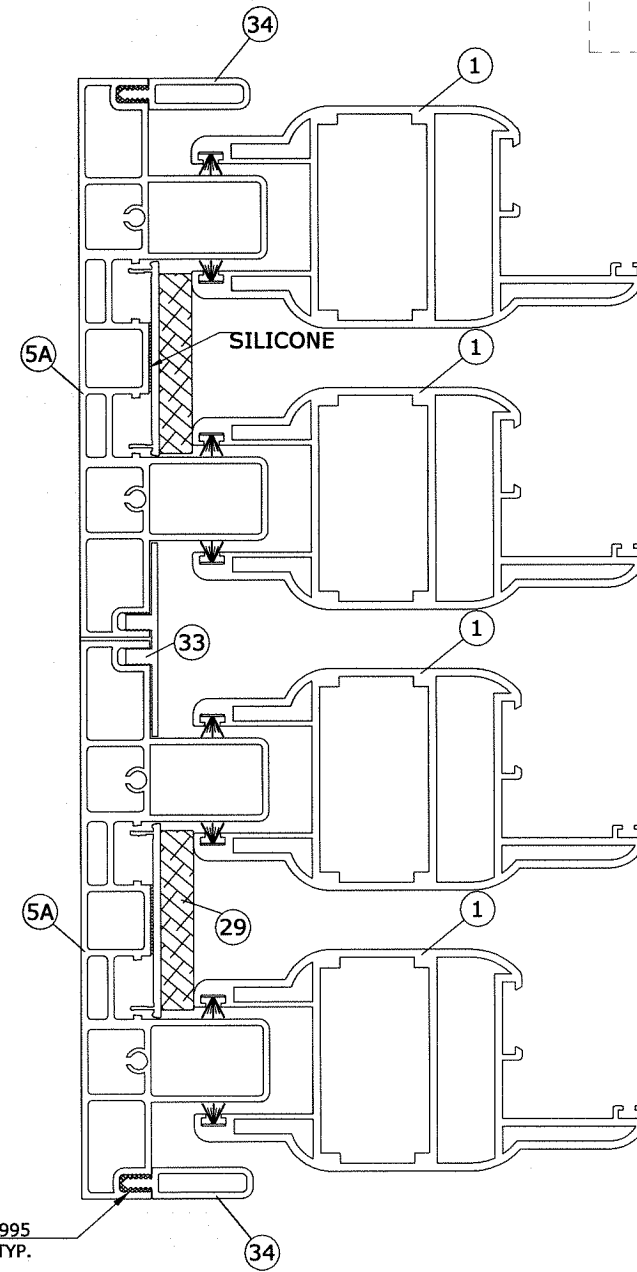
4 TRACK



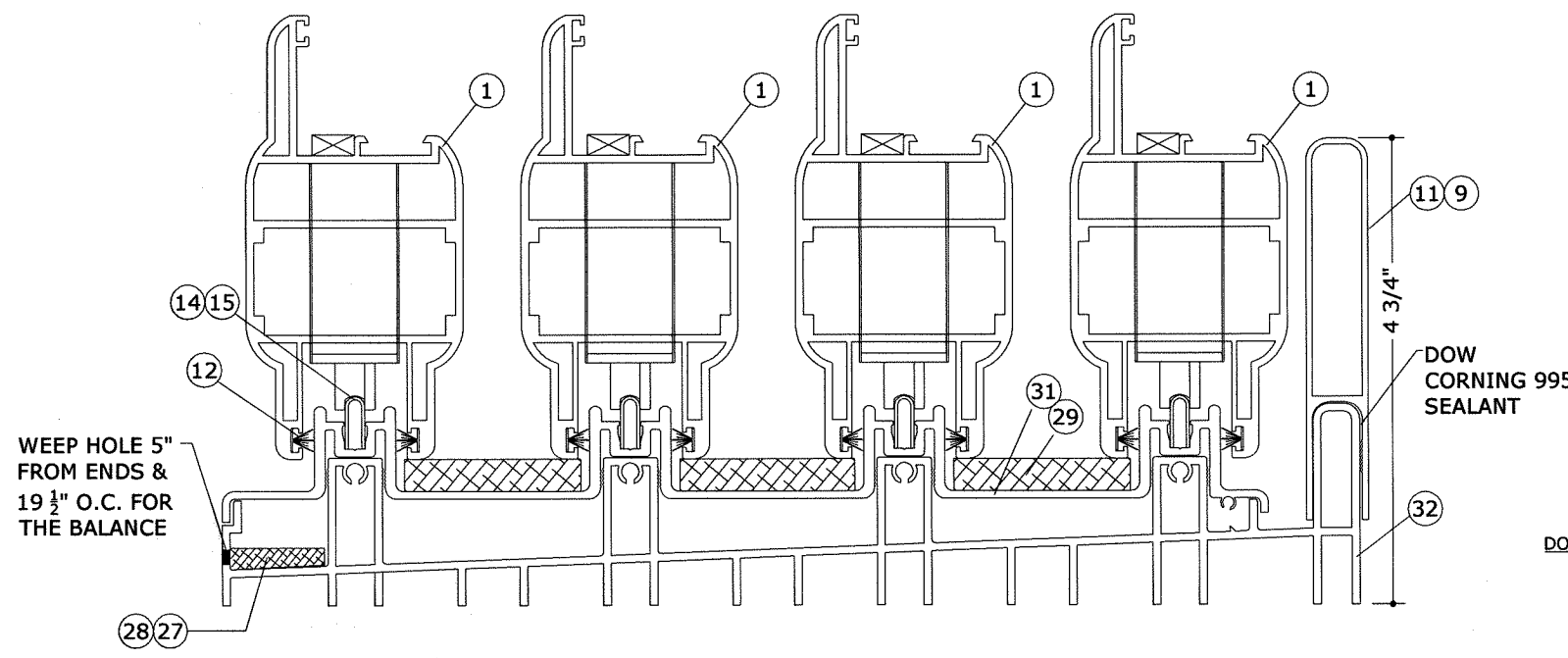
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1 TYPICAL HEADER SECTION
 10 6" = 1'-0" VERT SECT



3 TYPICAL JAMB SECTION
 10 6" = 1'-0" VERT SECT



2 TYPICAL SILL SECTION
 10 6" = 1'-0" VERT SECT

WEEP HOLE 5" FROM ENDS & 19 1/2" O.C. FOR THE BALANCE

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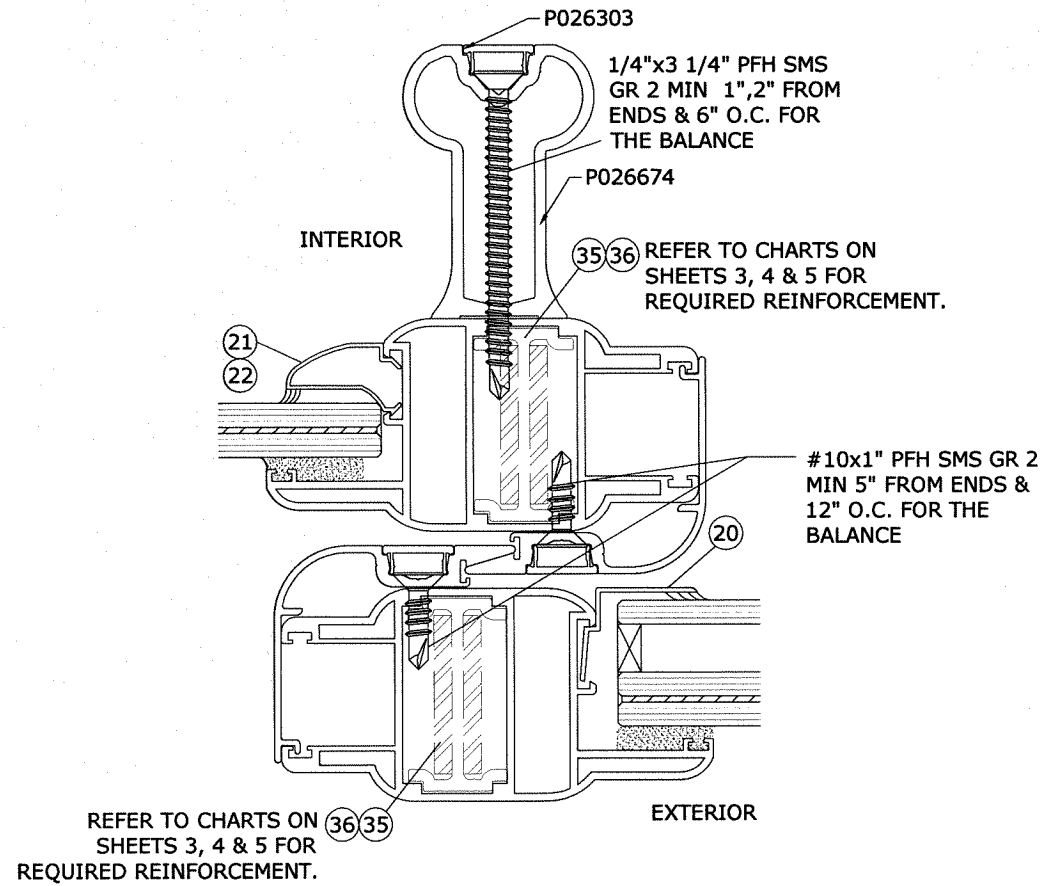
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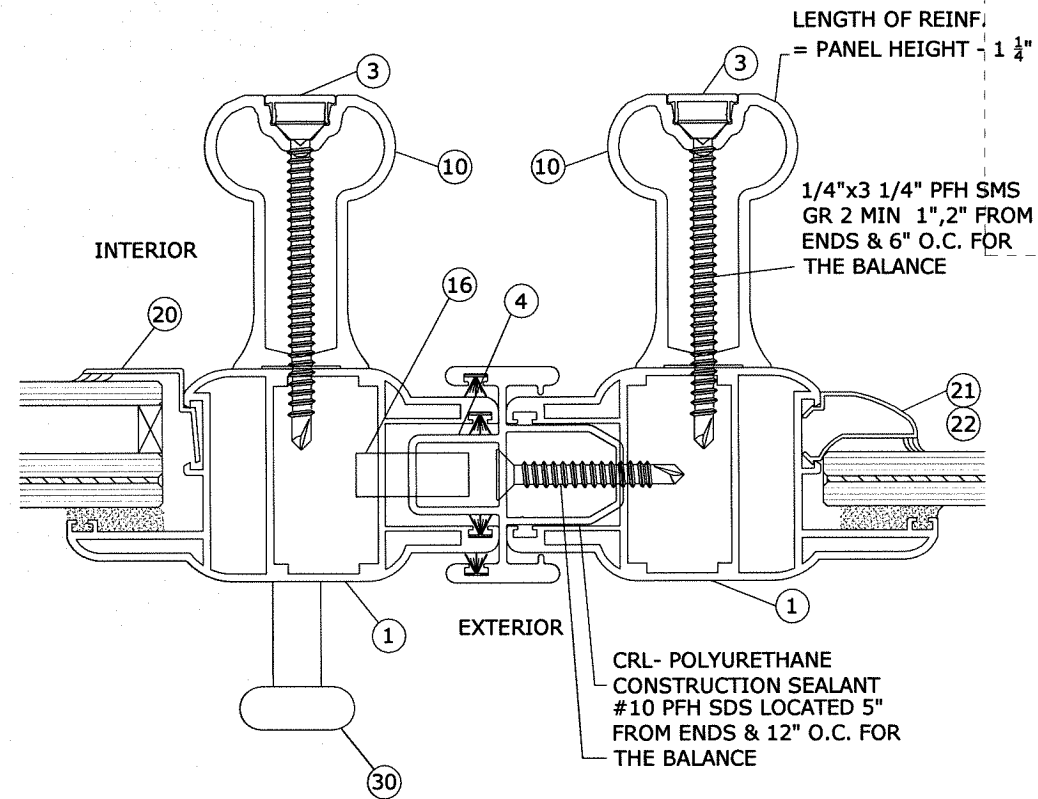
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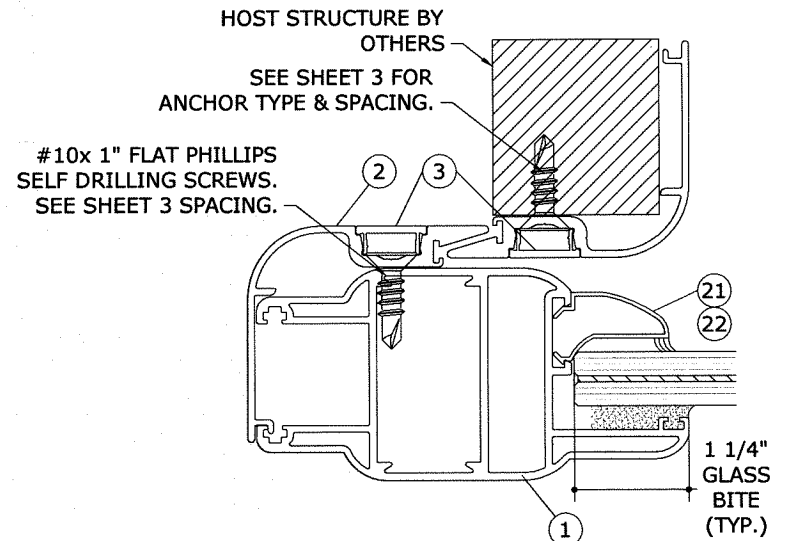
2, 3 & 4 TRACK SECTIONS



5 TYPICAL INTERLOCKING STILE
11 6" = 1'-0"



6 LOCKSTILE DETAIL
11 6" = 1'-0"



4 POCKET JAMB DETAIL
11 6" = 1'-0"

FRANK L. BENNARDO, P.E.
PE# 0046549
12/18/2017
No PE0046549
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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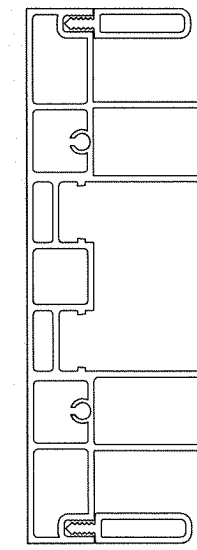
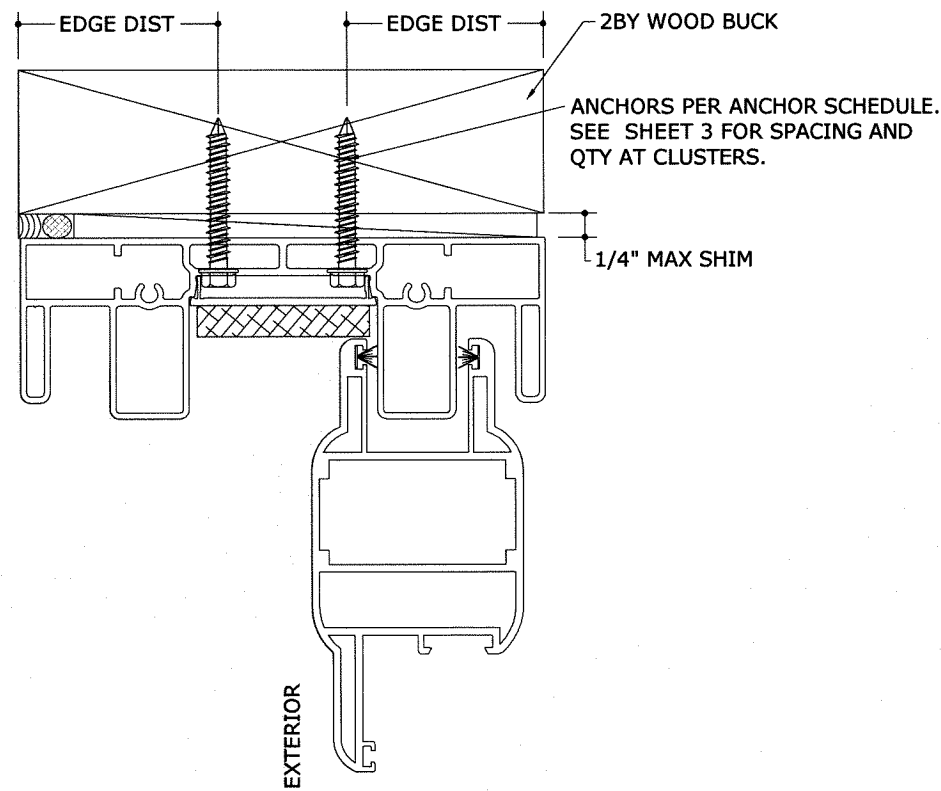
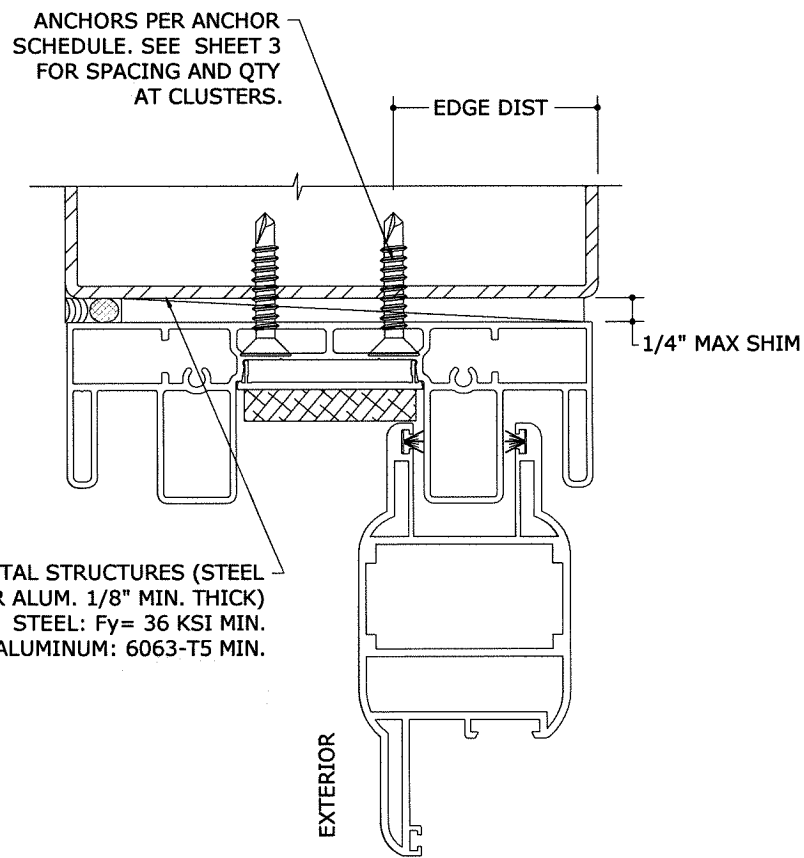
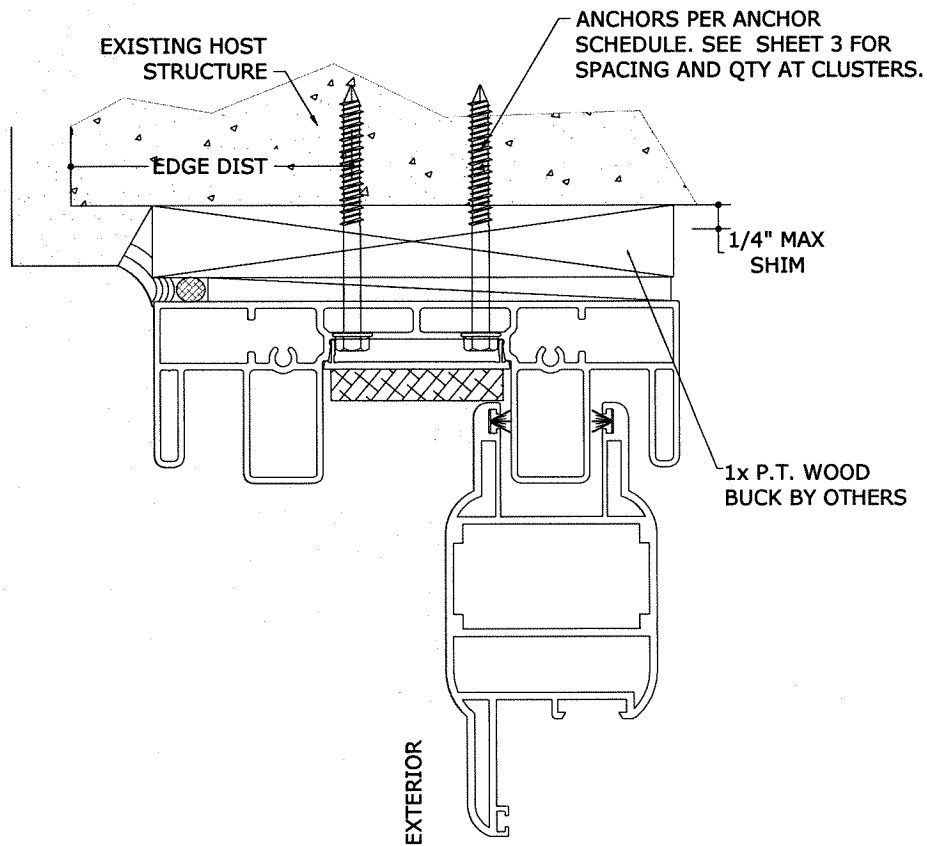
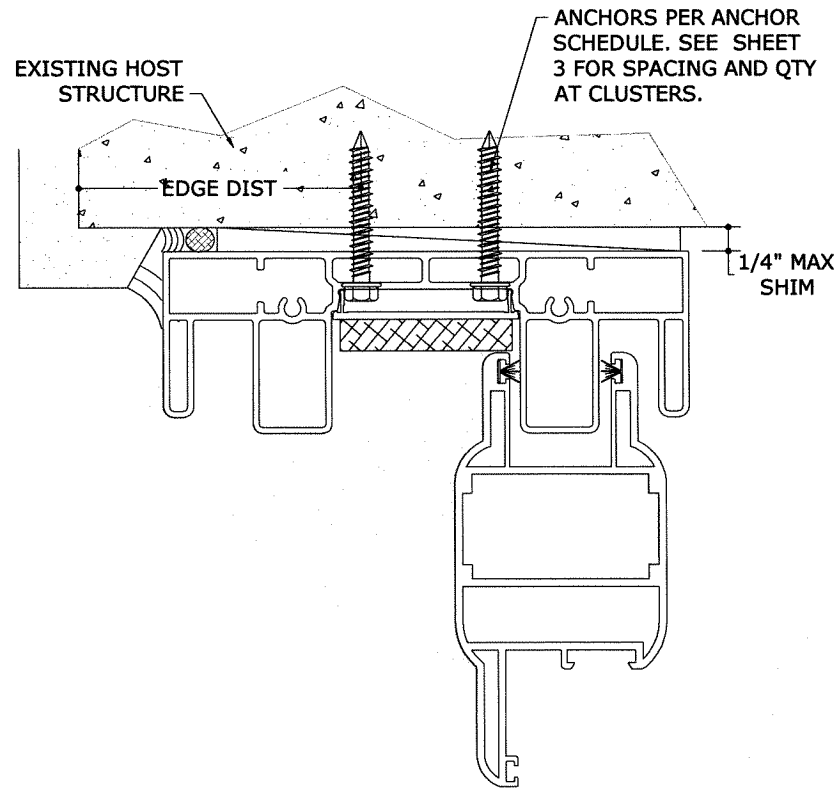
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 PE#0046549
 12/18/2017
 No PE0046549
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

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 CORPORATE OFFICE:
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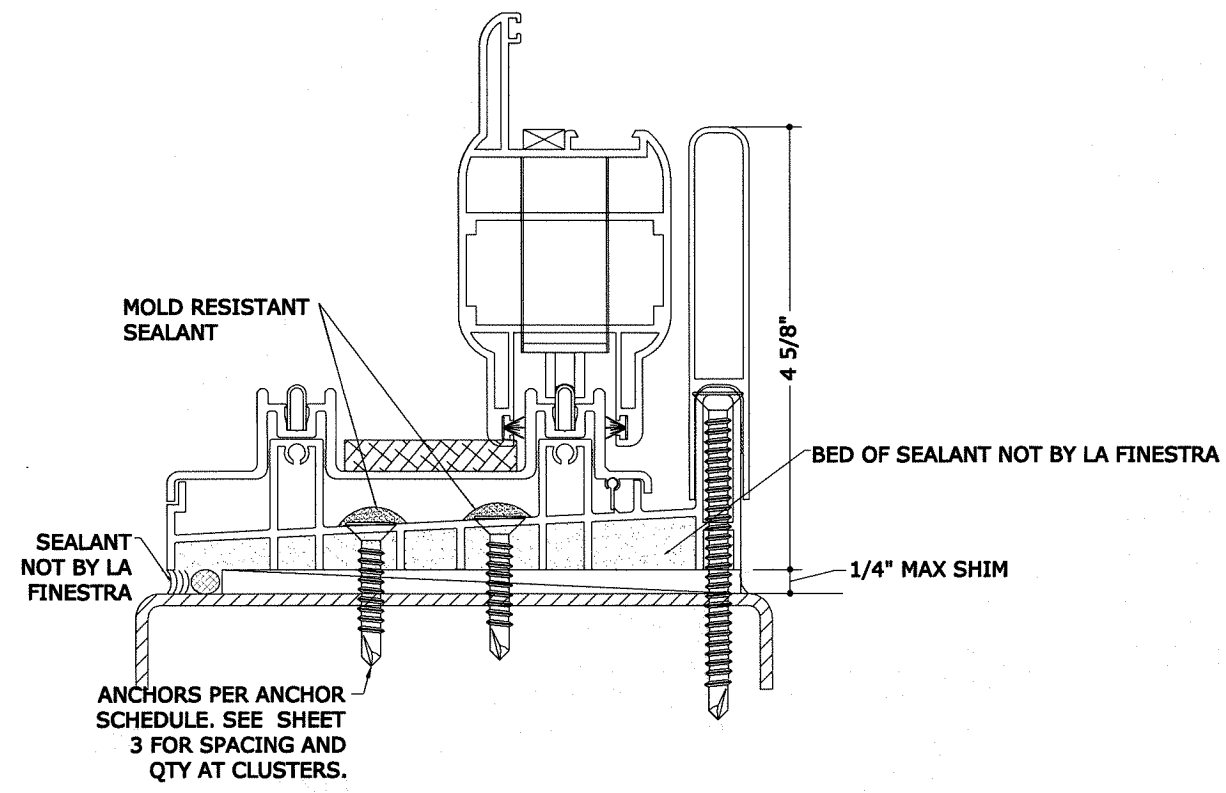
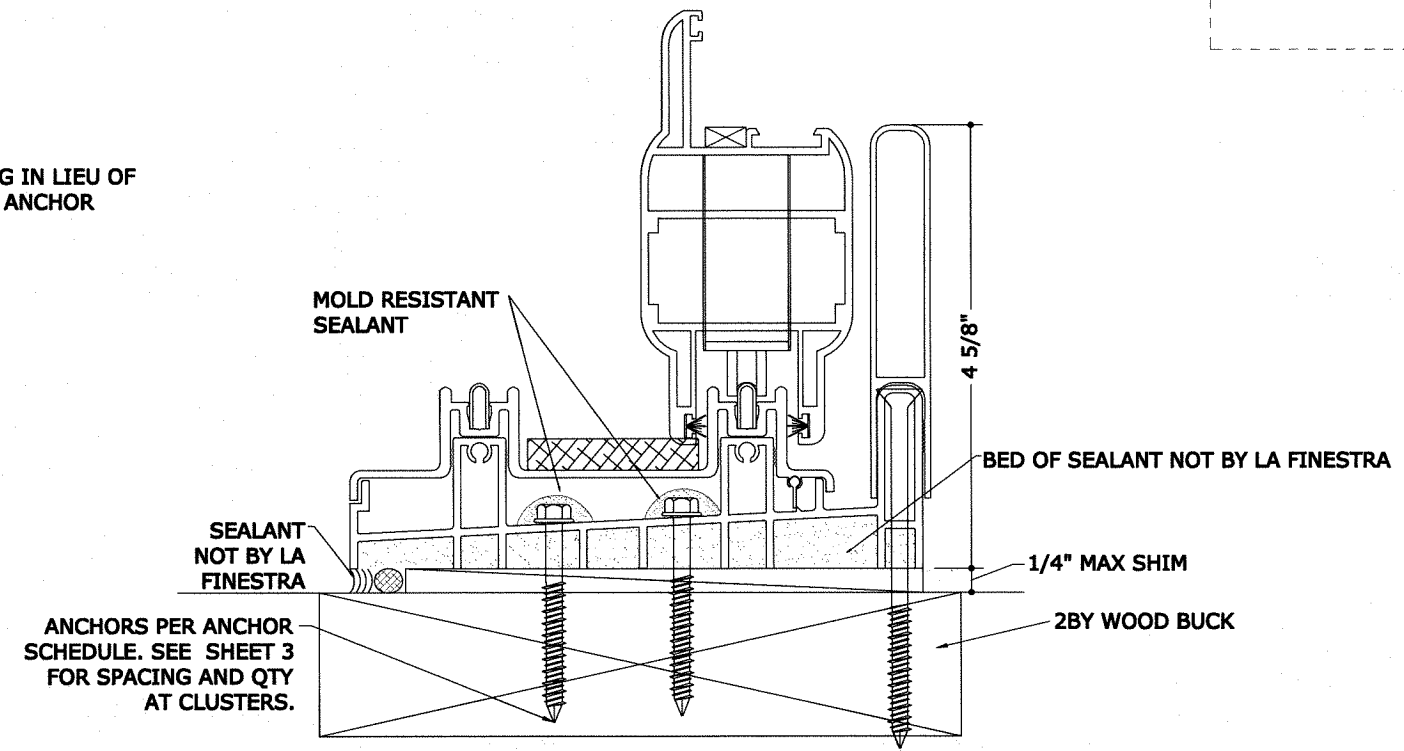
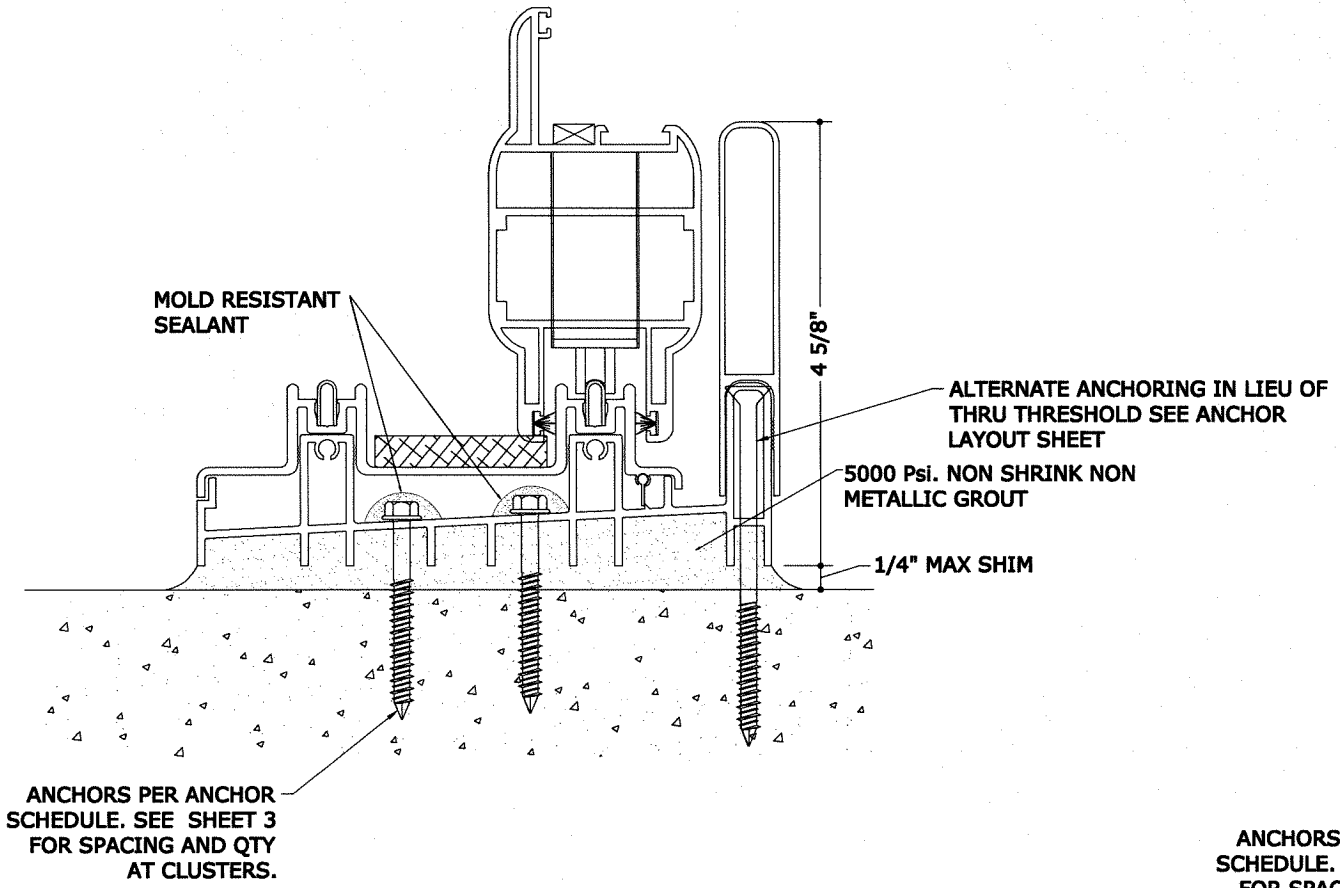
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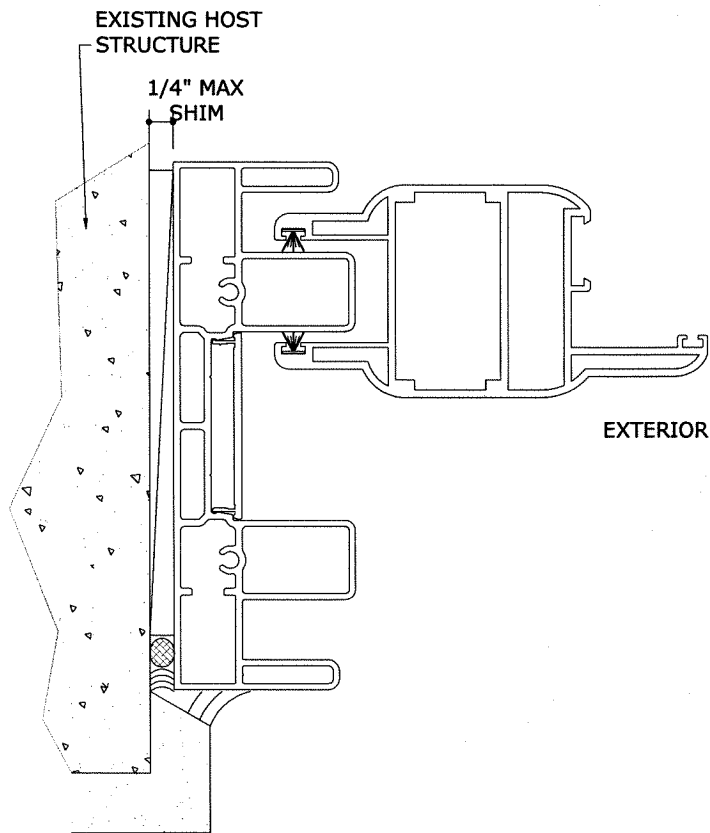
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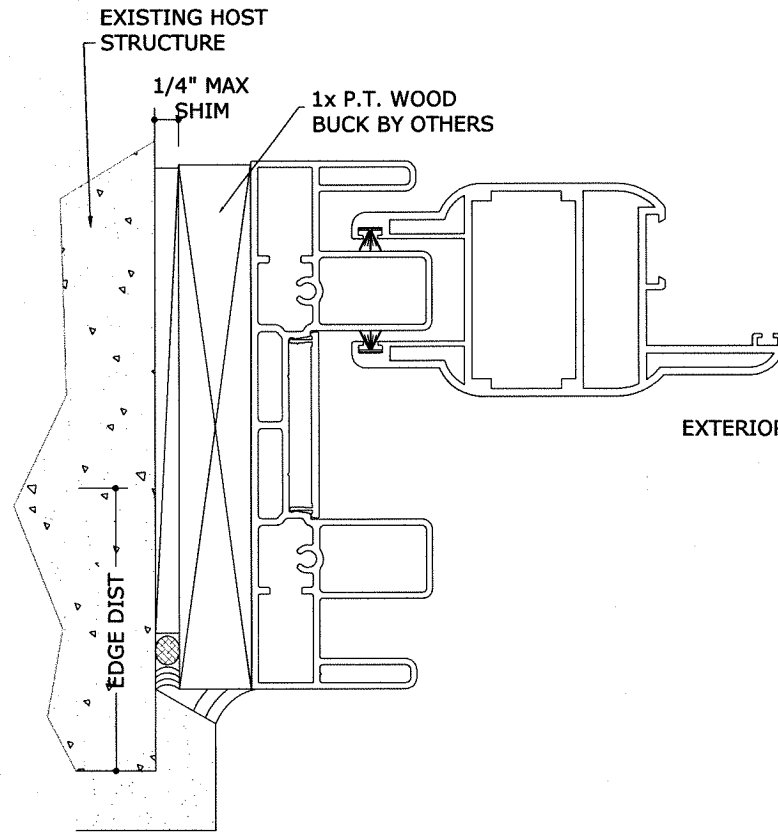
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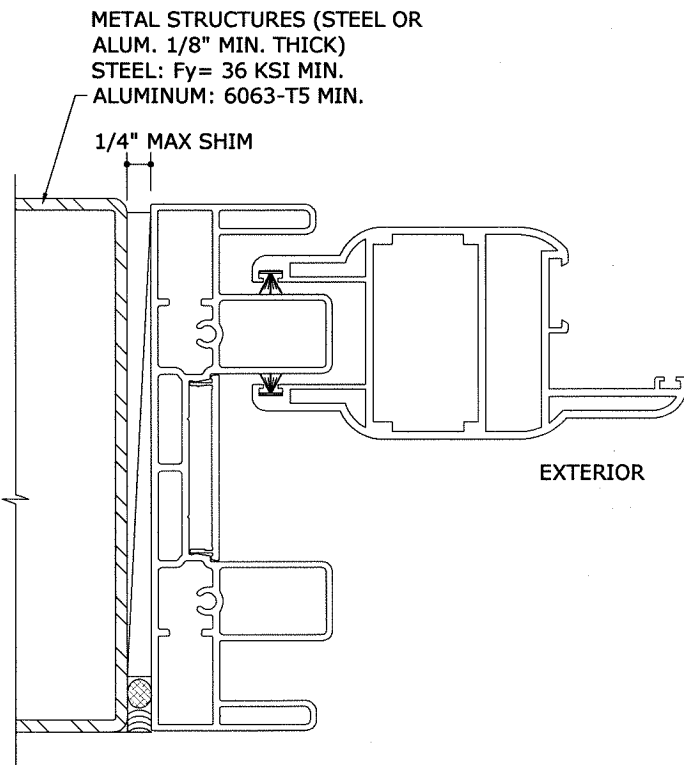
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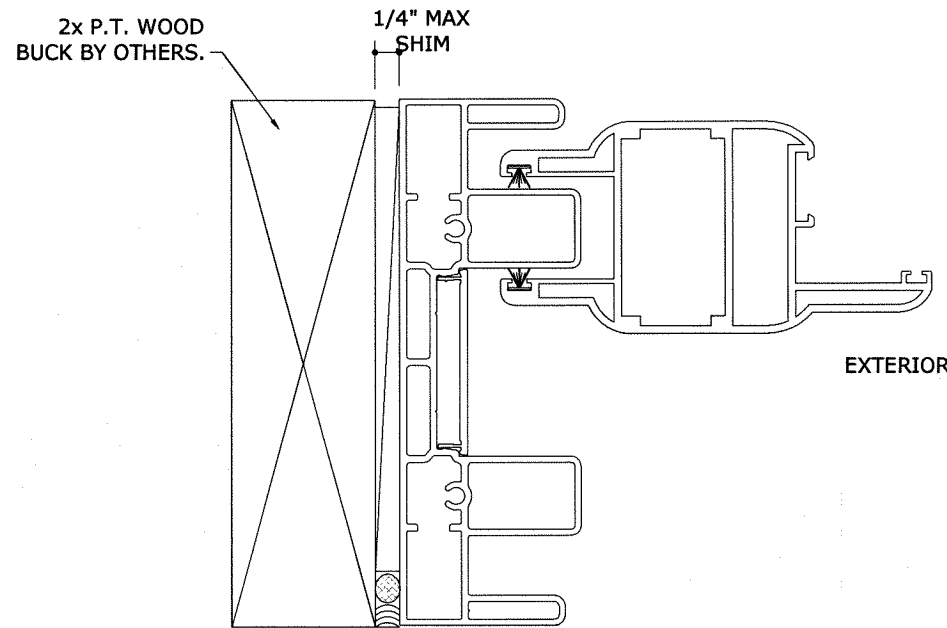
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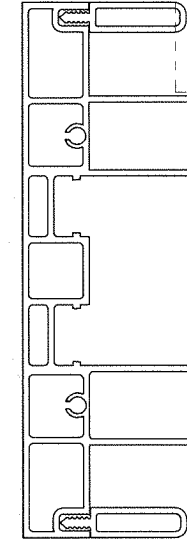
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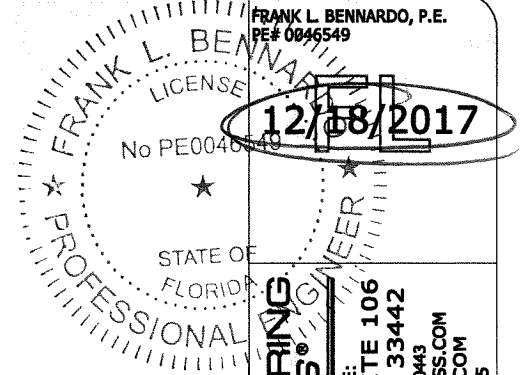
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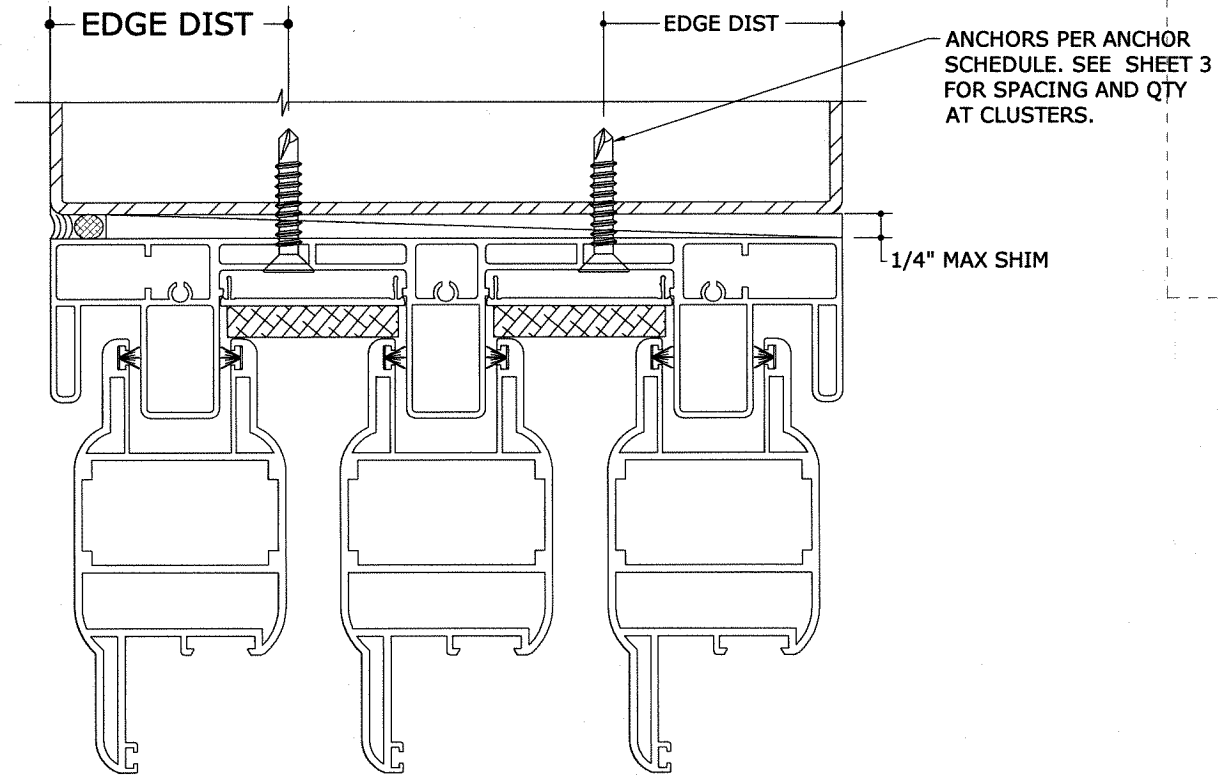
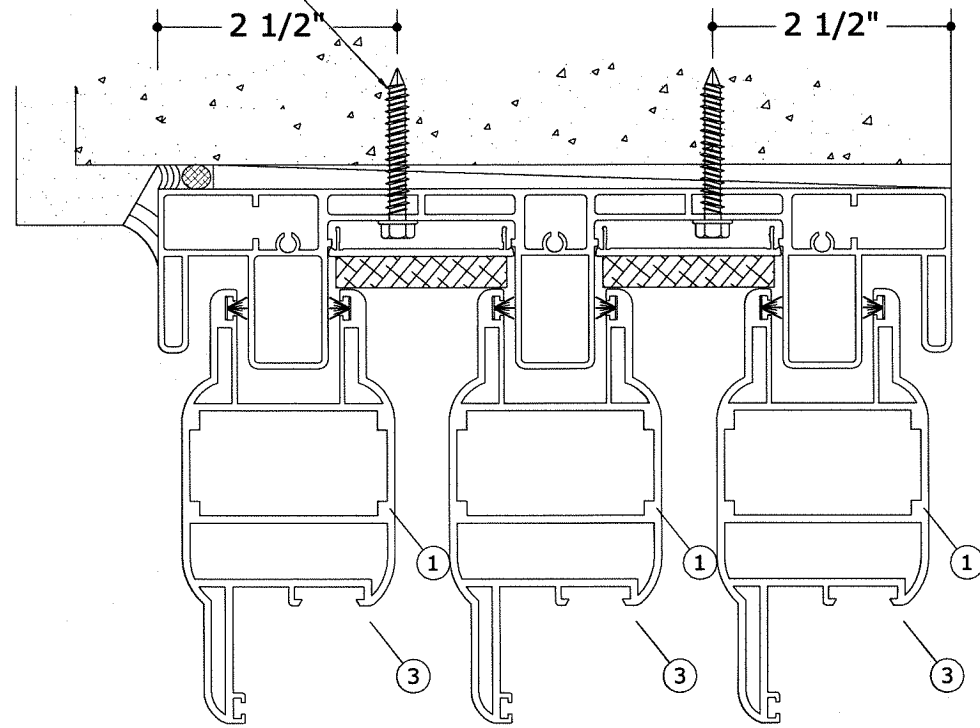
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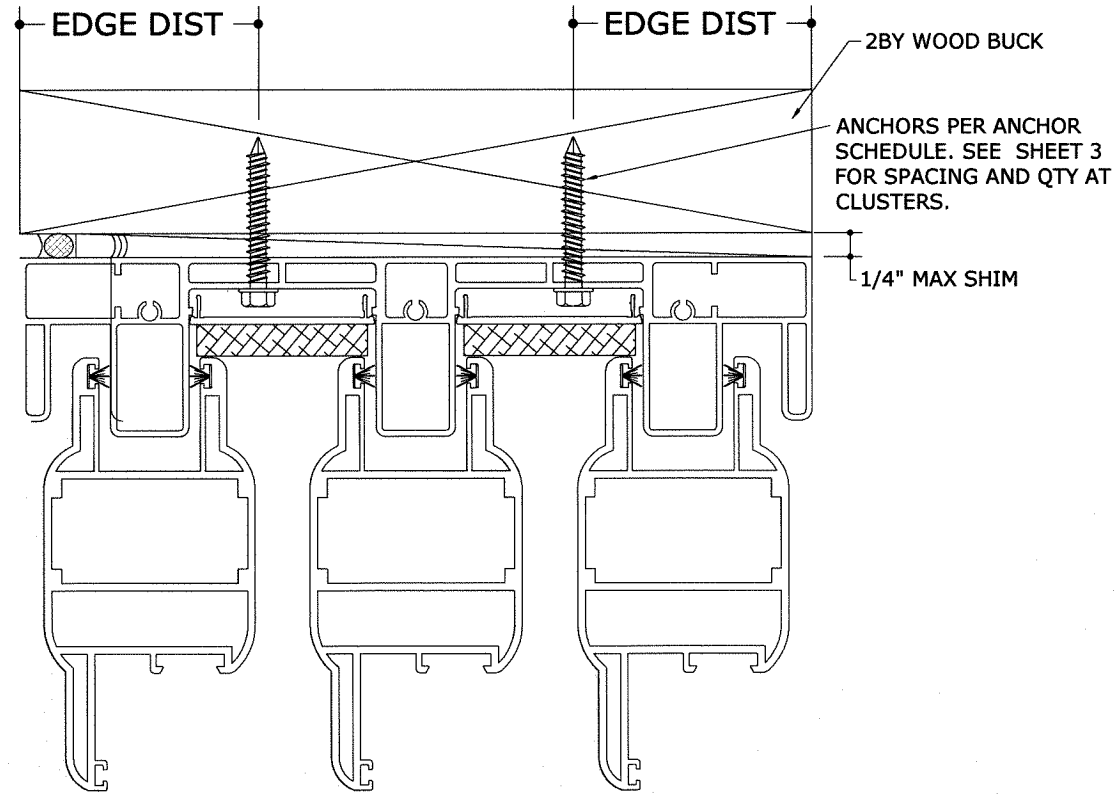
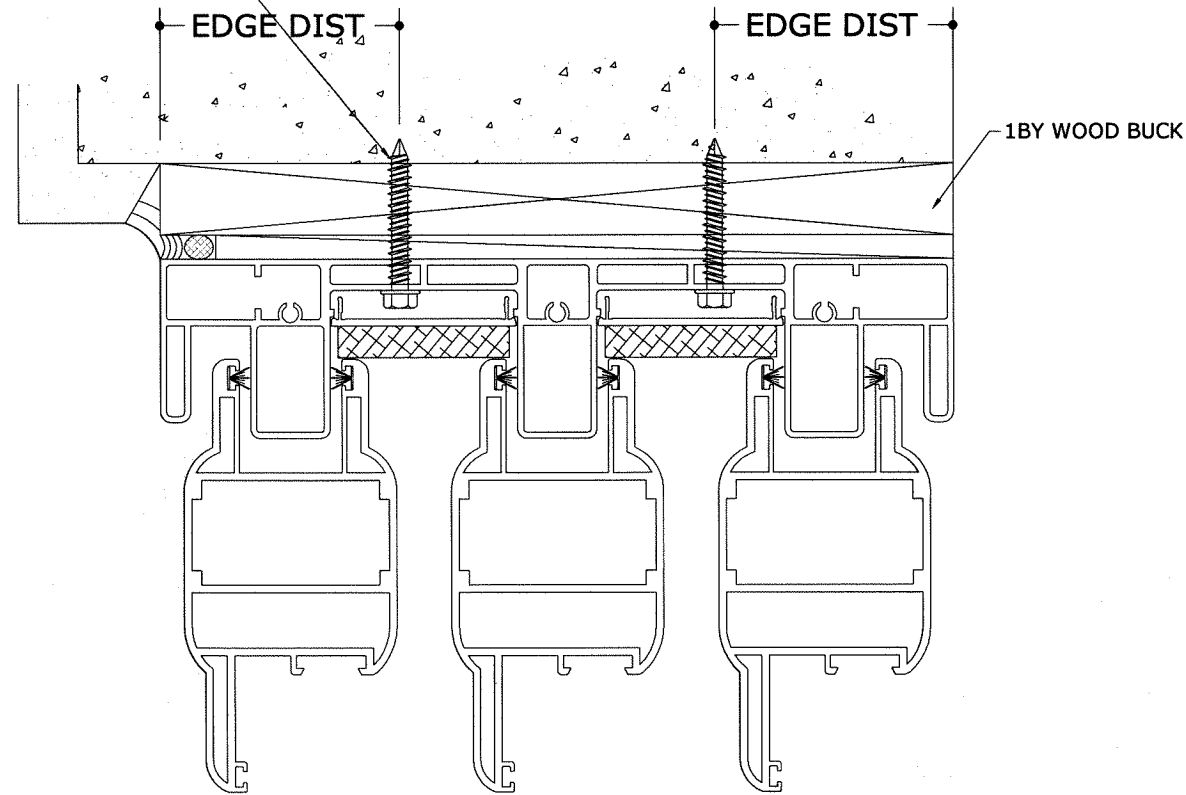
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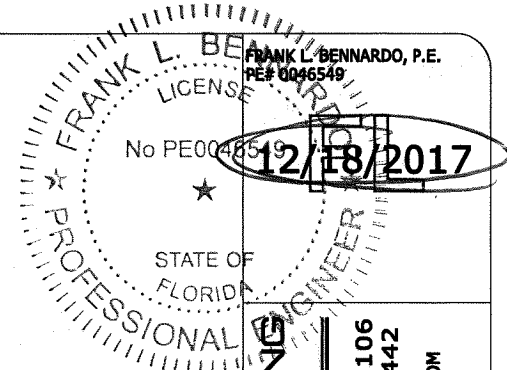
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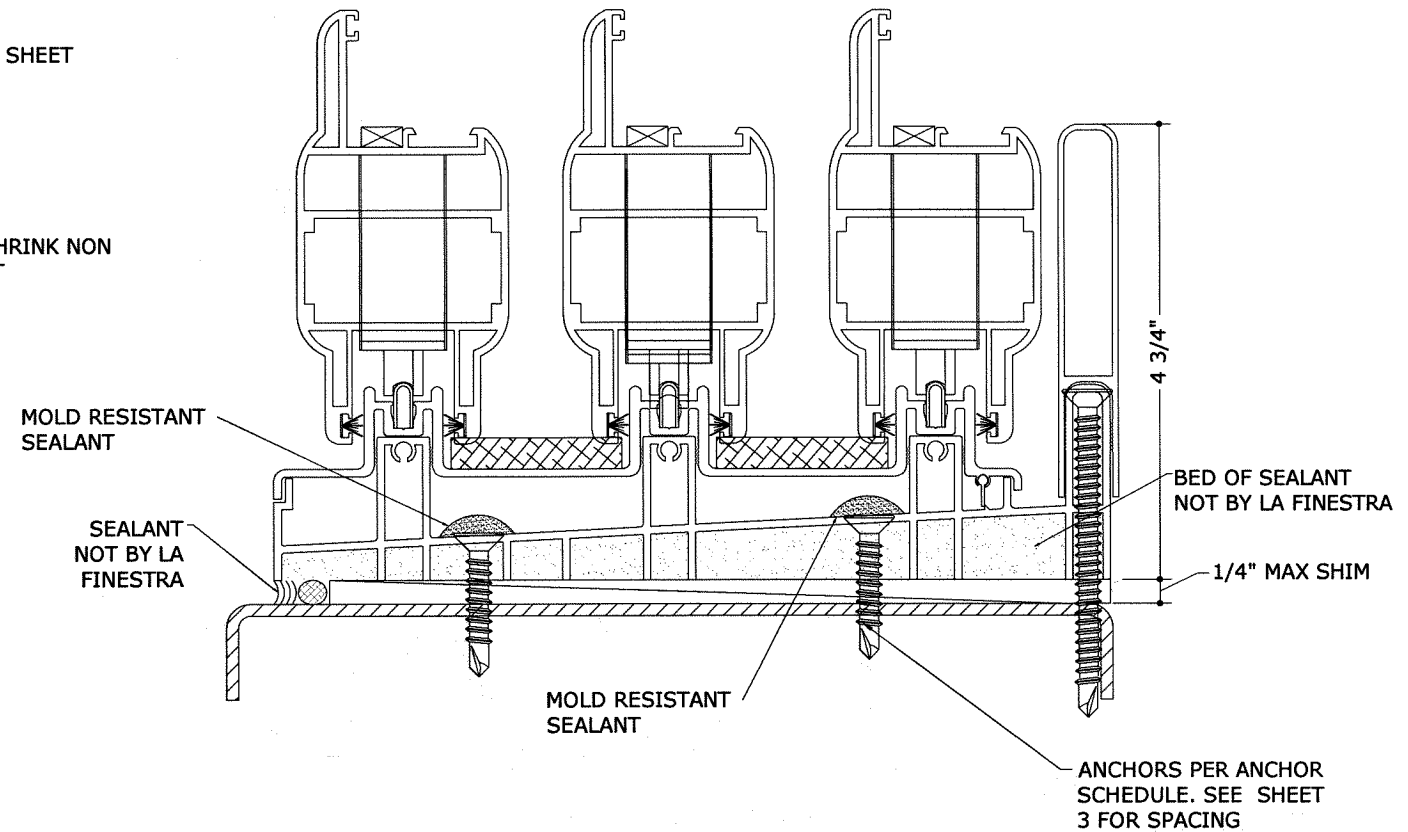
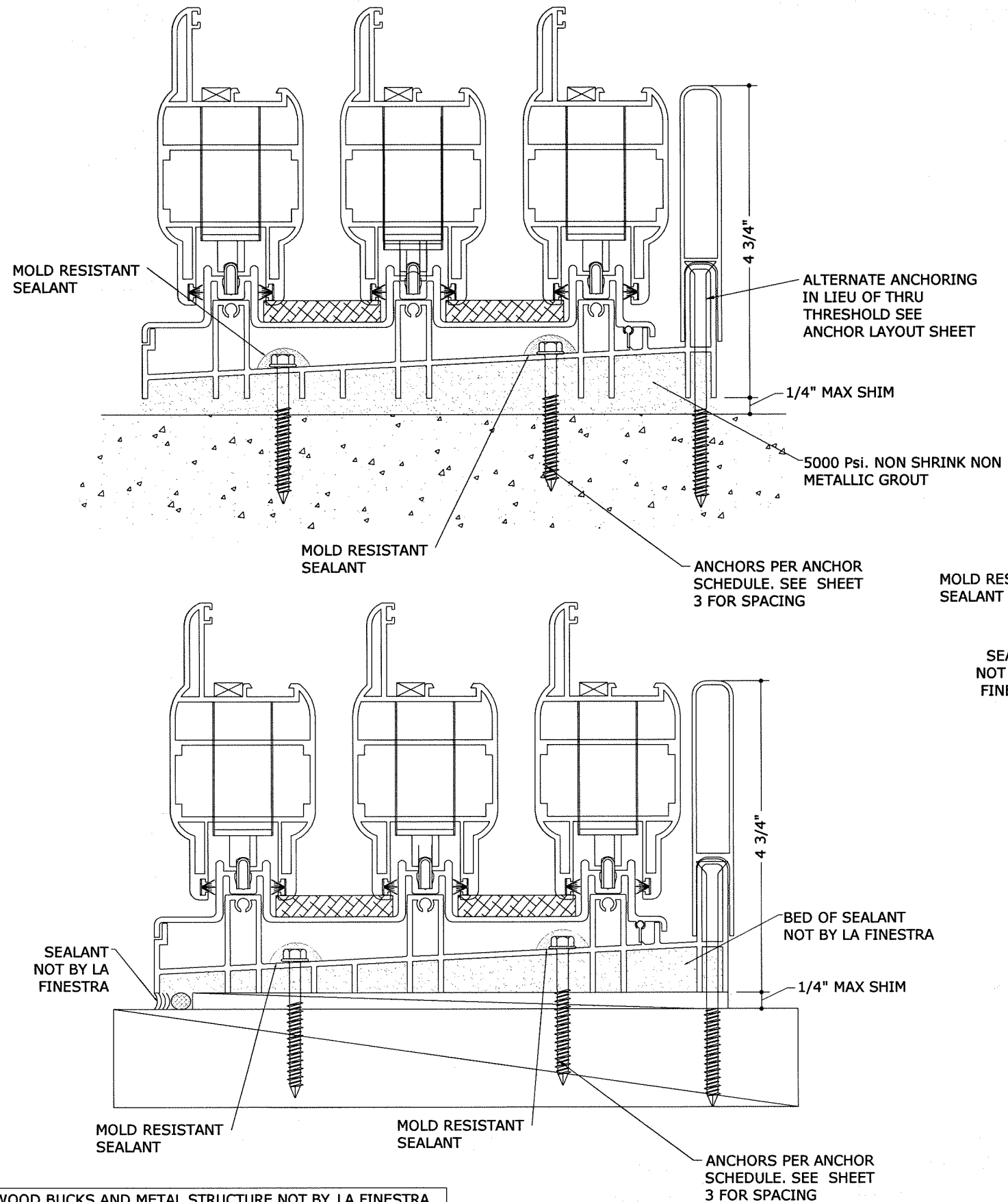
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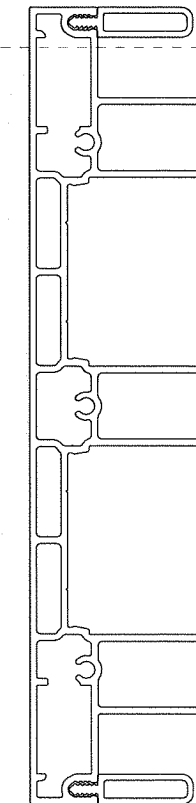
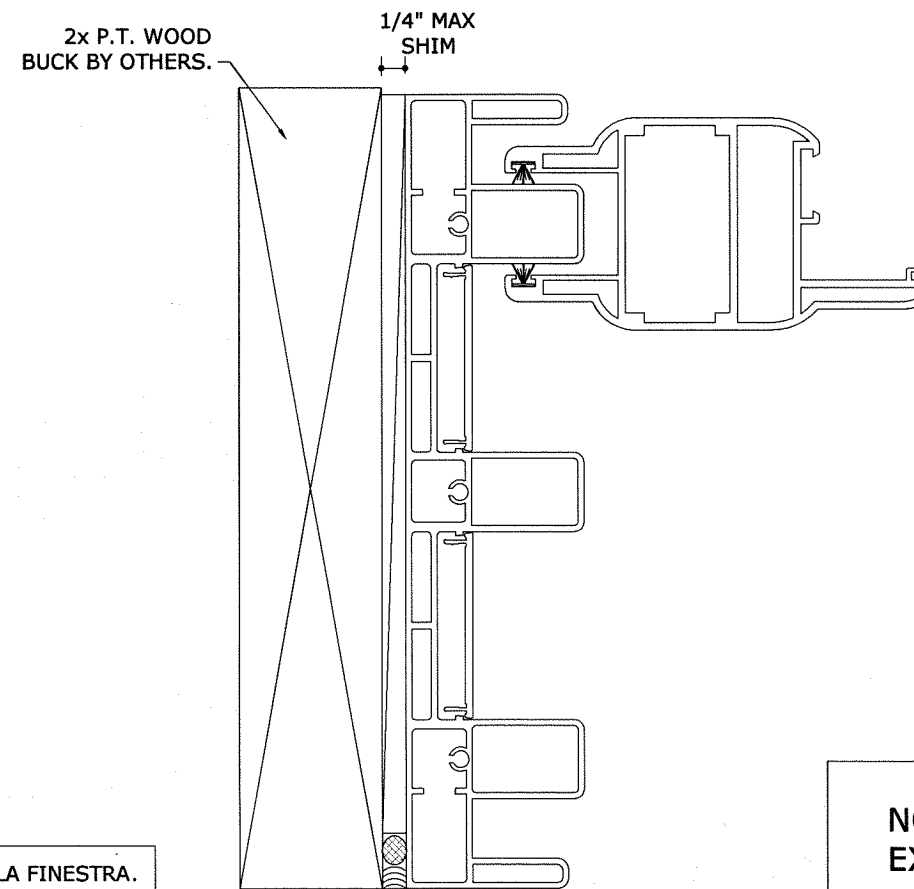
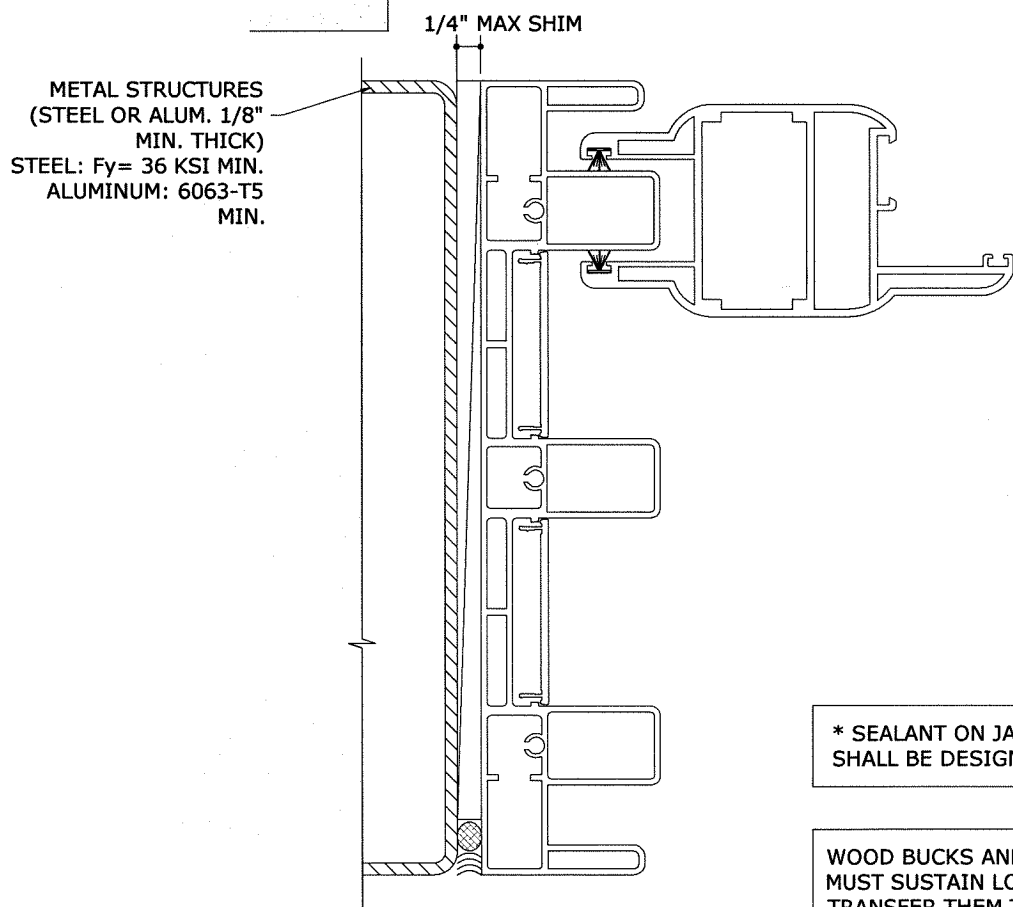
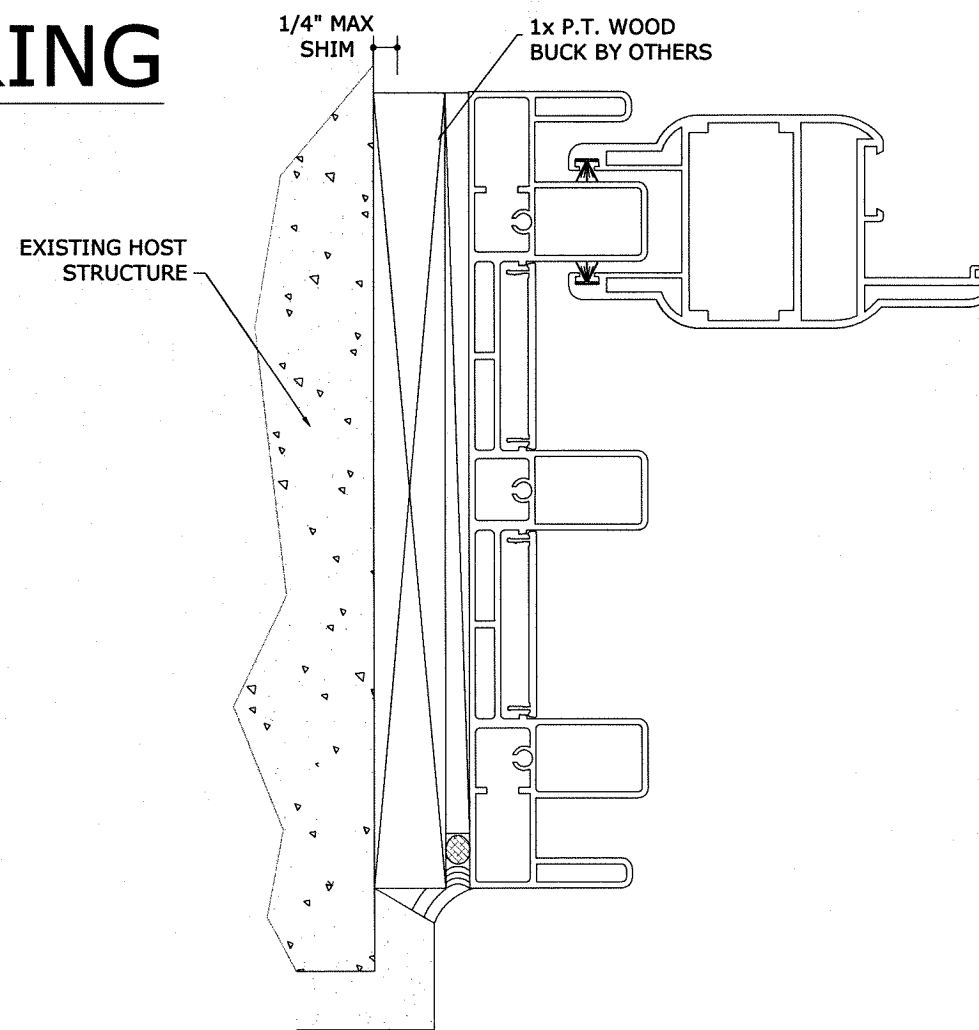
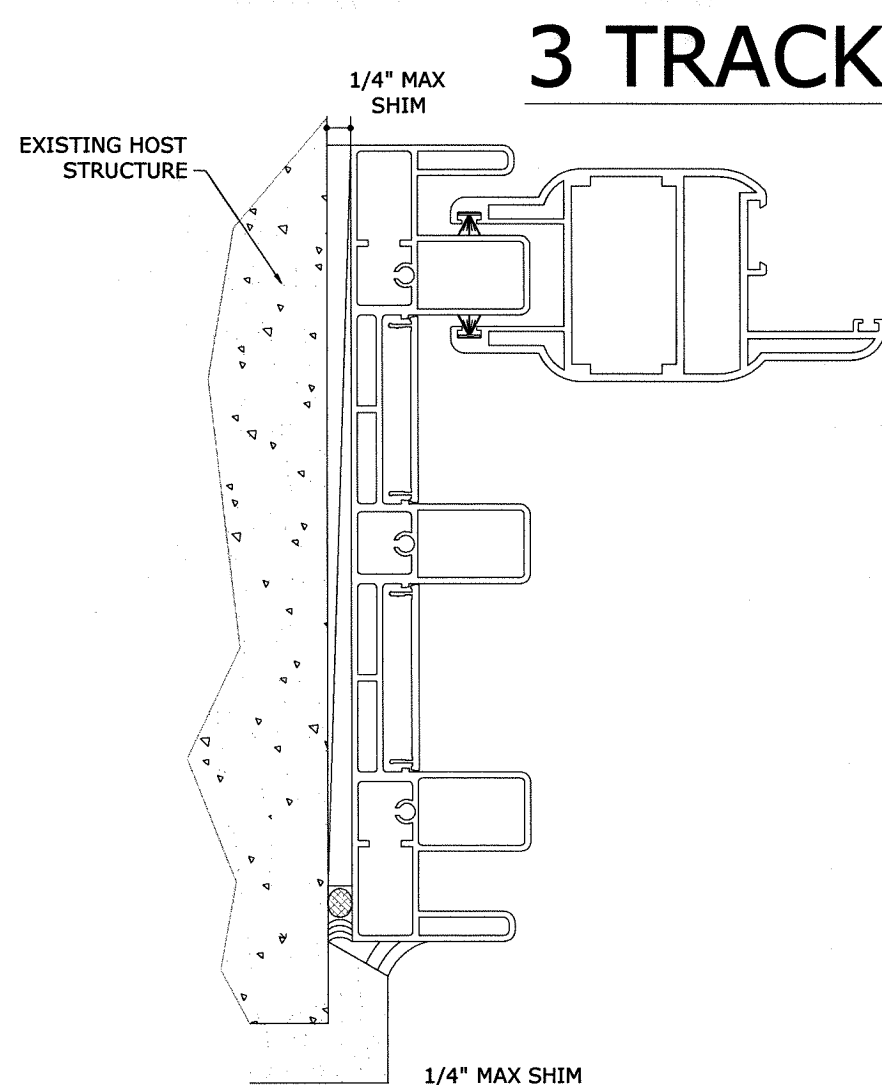
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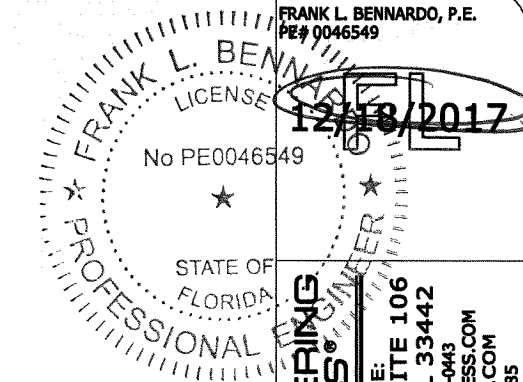


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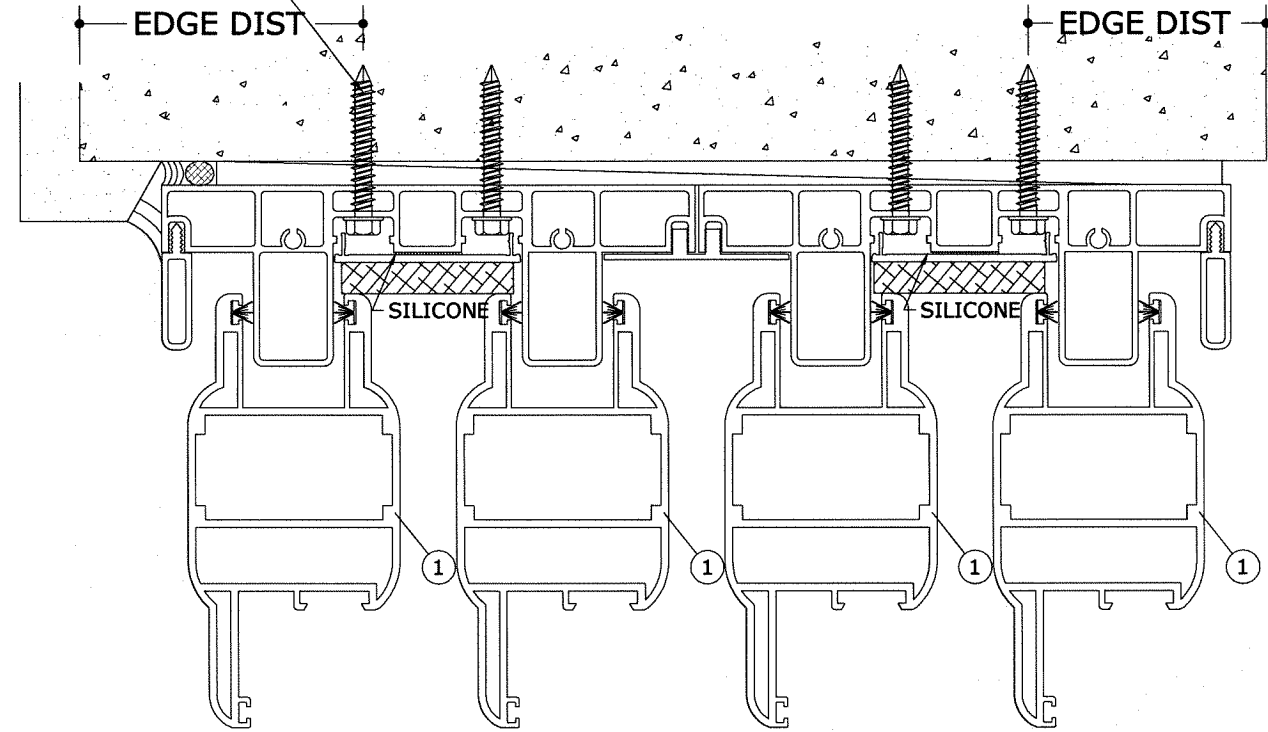
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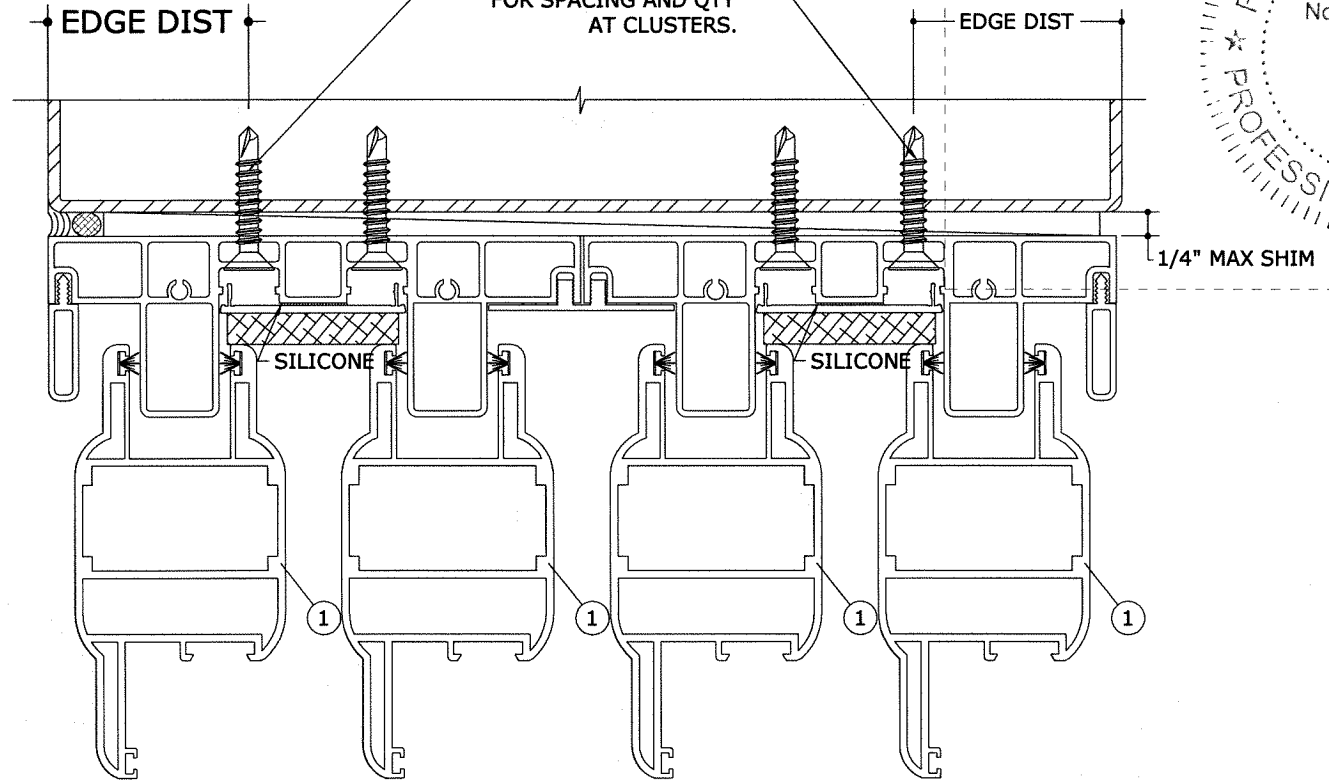
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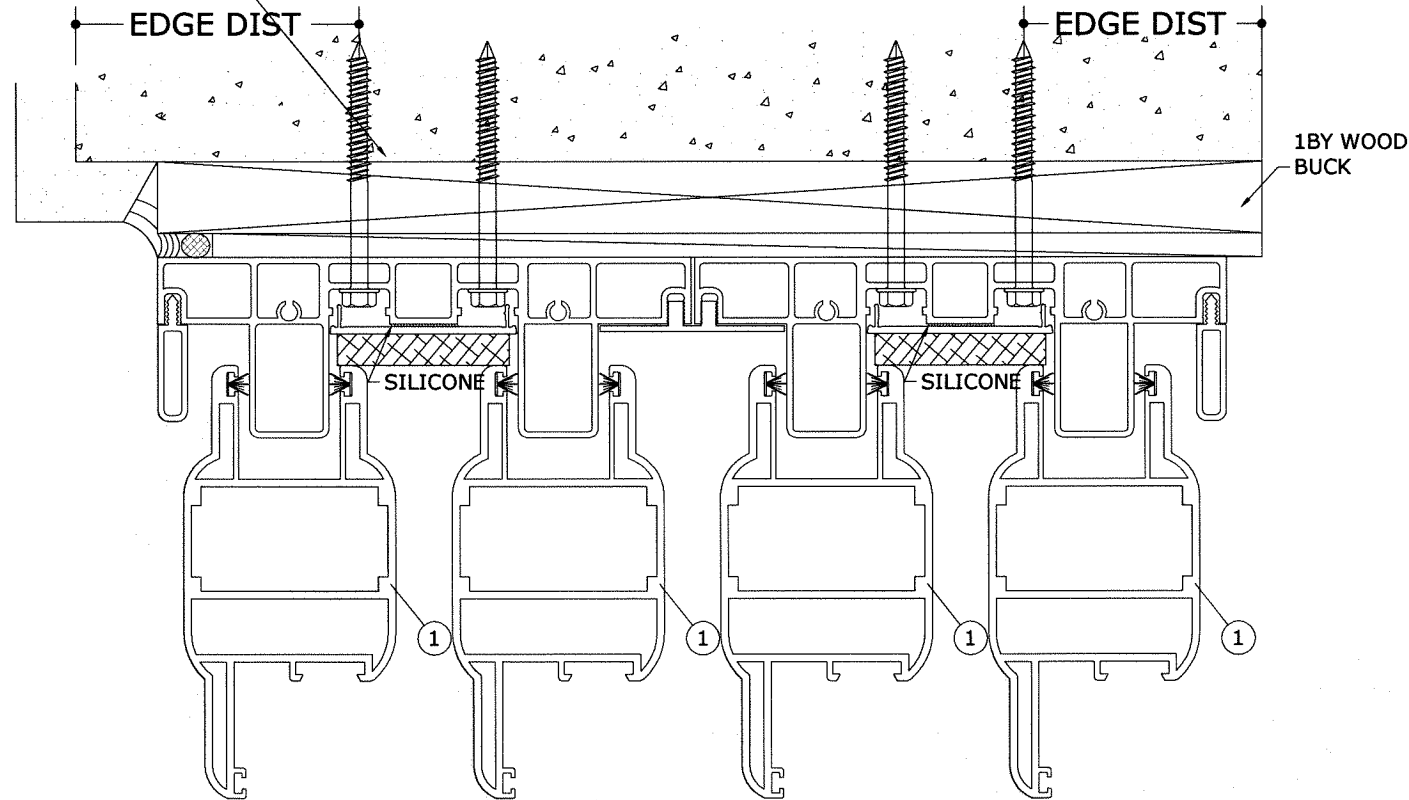
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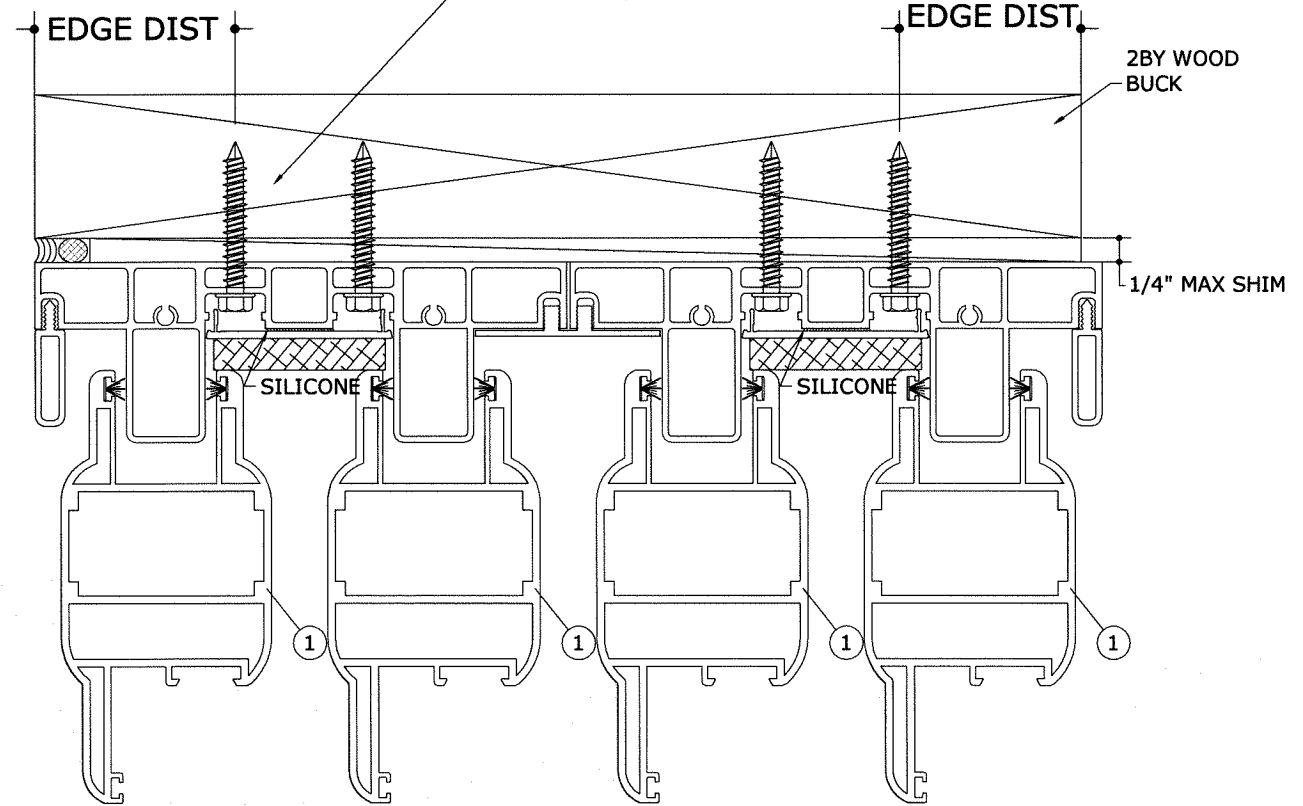
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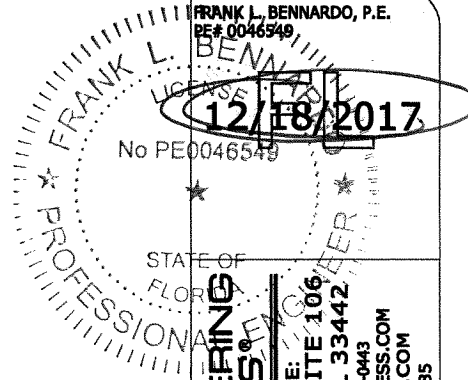


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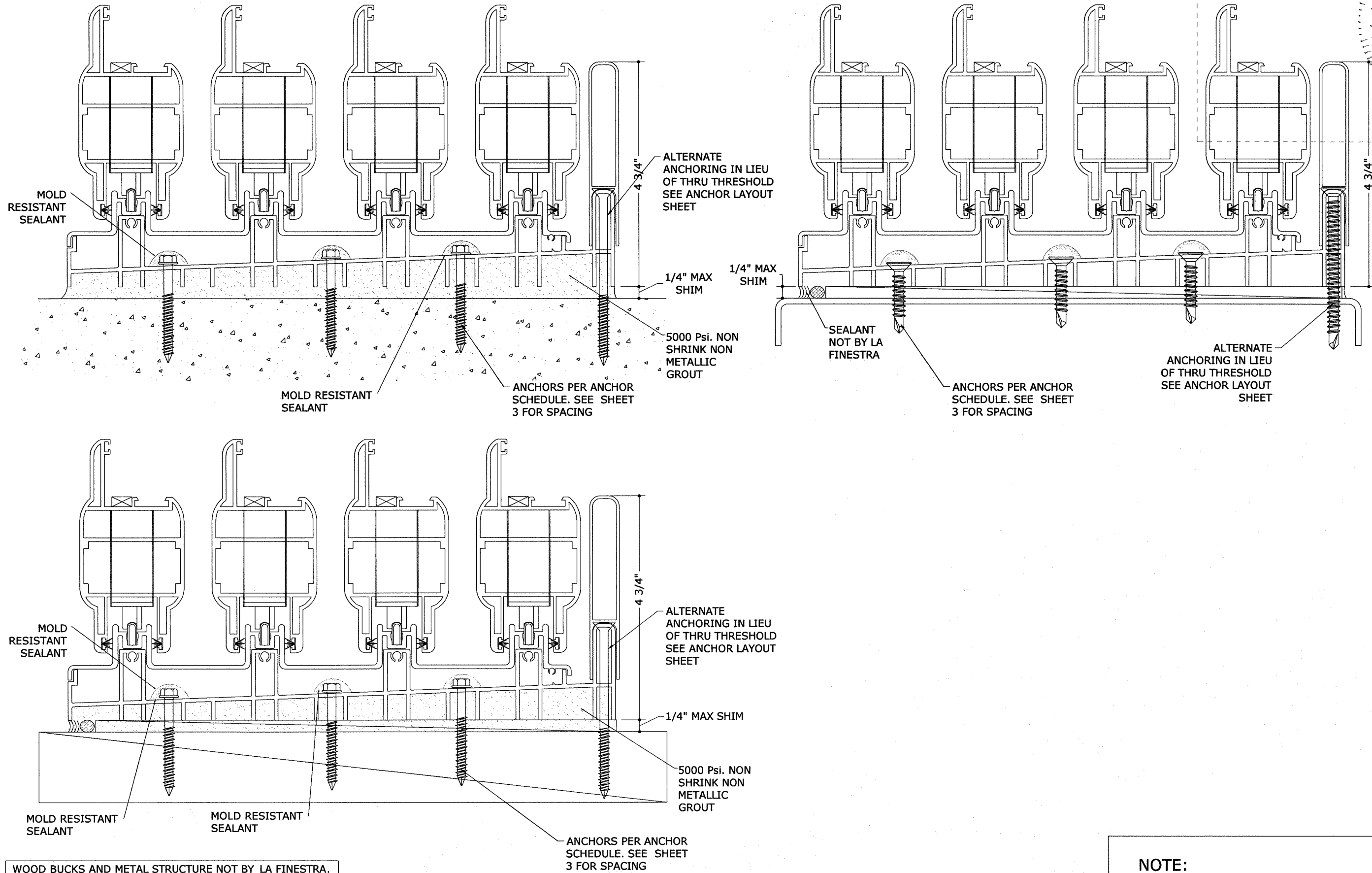
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PE# 0046549

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REMARKS	DRWN	CHKD	DATE
INIT. ISSUE	JEM	AJP	12/16/15
REV. 3	JEM	FLB	04/20/16
2017 FBC UPDATE	JEM	AJP	12/18/17

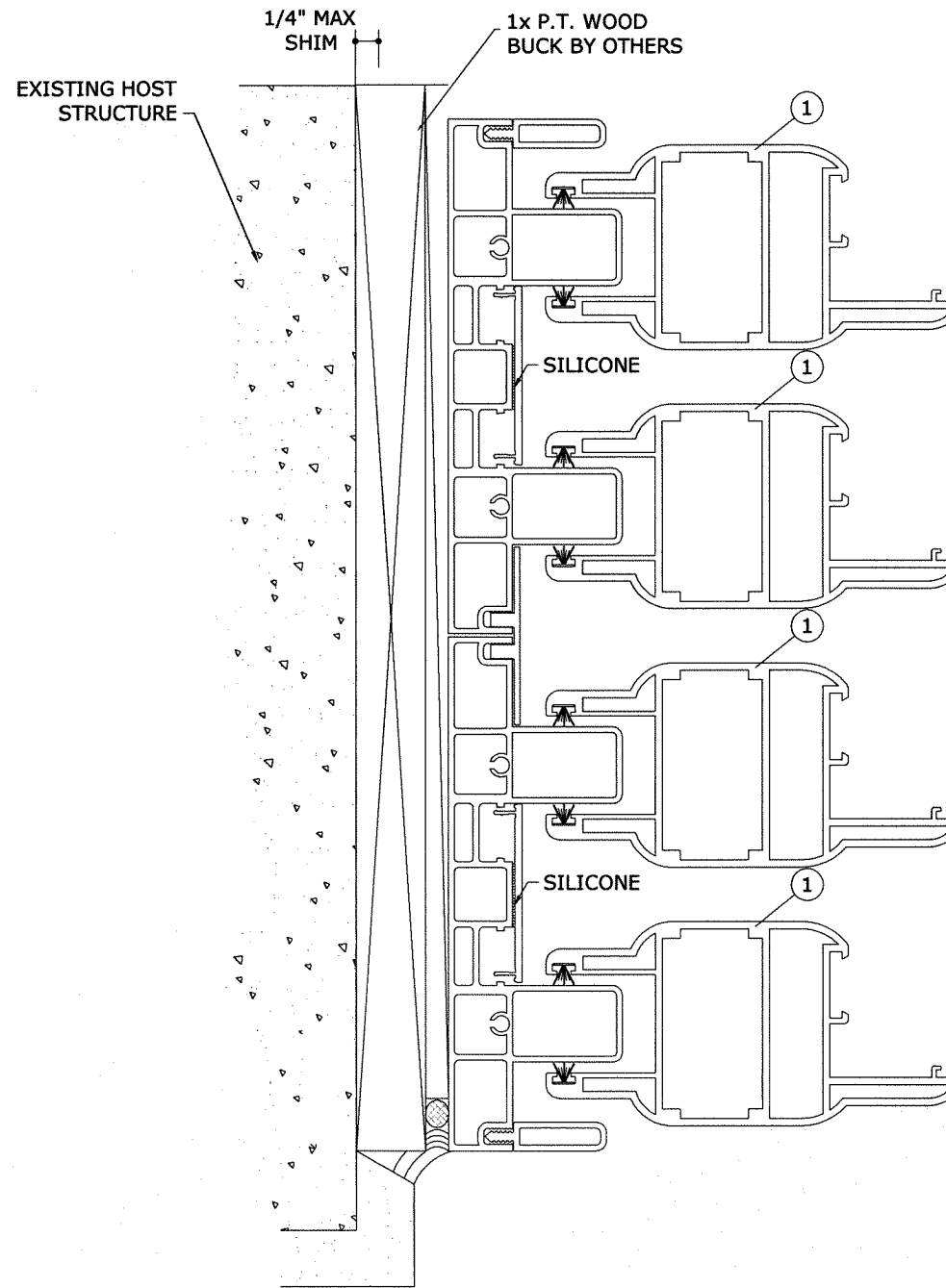
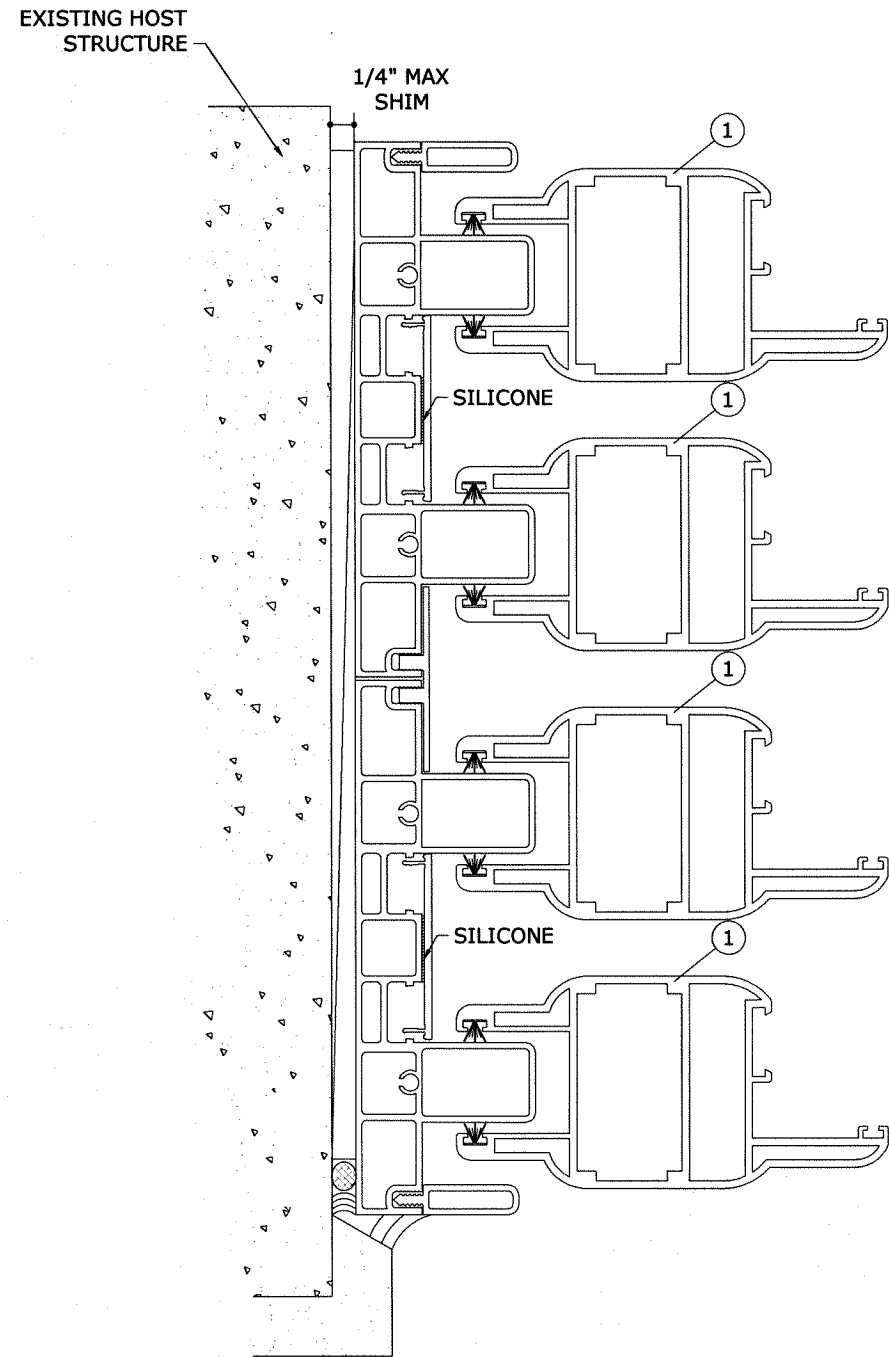
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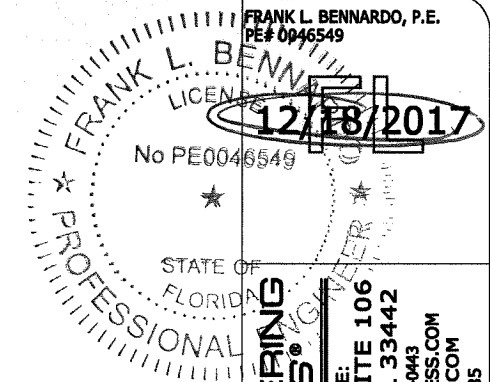
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4 TRACK ANCHORING



* SEALANT ON JAMBS WITH NO ANCHORS SHALL BE DESIGNED BY OTHERS.

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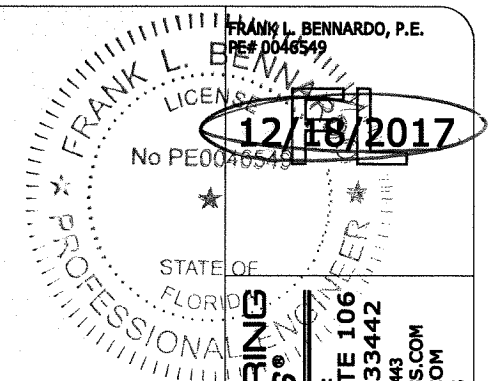
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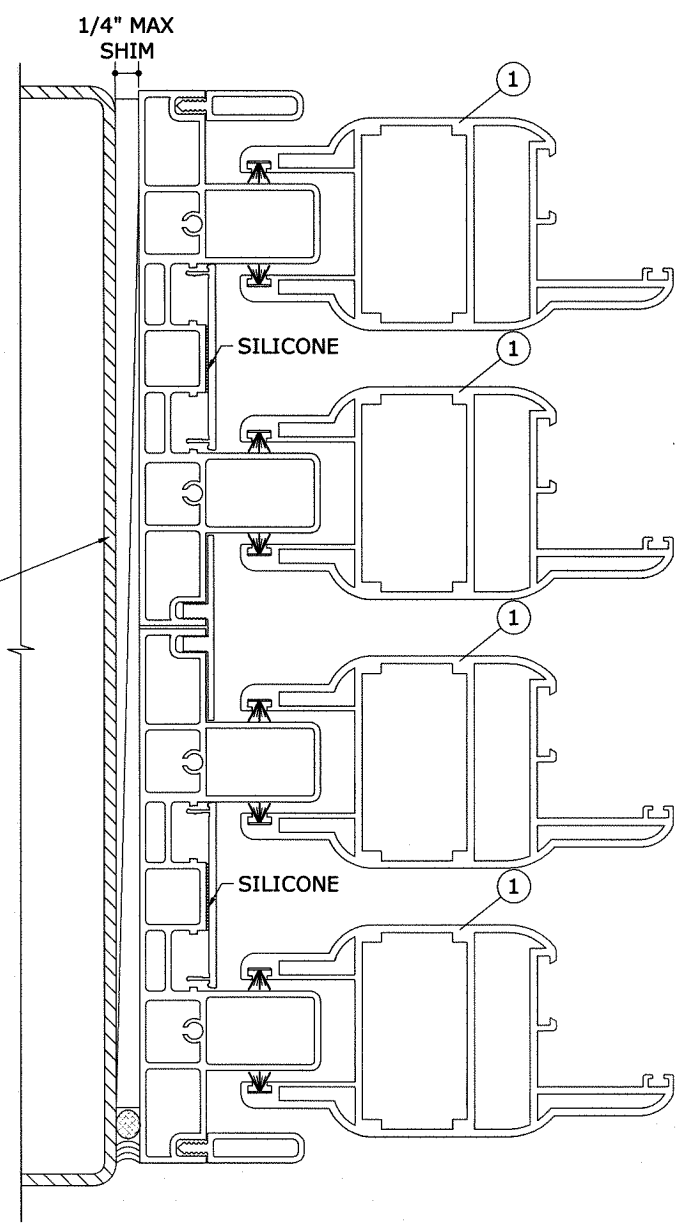
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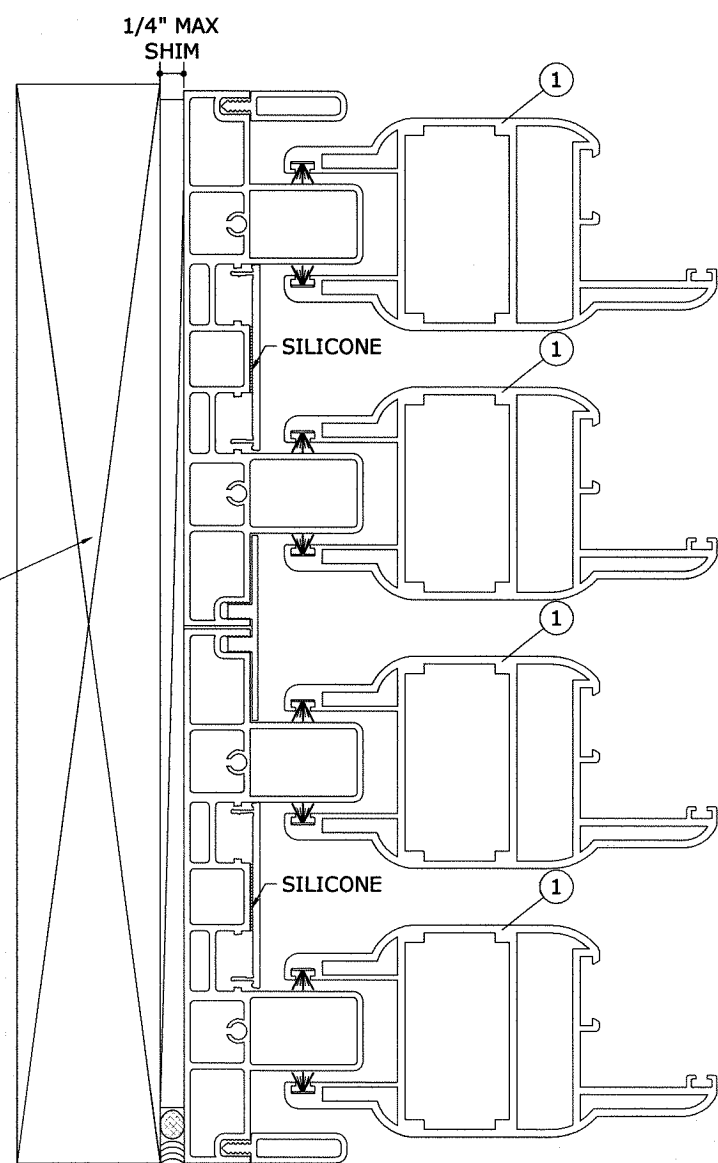


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METAL STRUCTURES
 (STEEL OR ALUM. 1/8"
 MIN. THICK)
 STEEL: Fy= 36 KSI MIN.
 ALUMINUM: 6063-T5
 MIN.

2x P.T. WOOD BUCK BY
 OTHERS.



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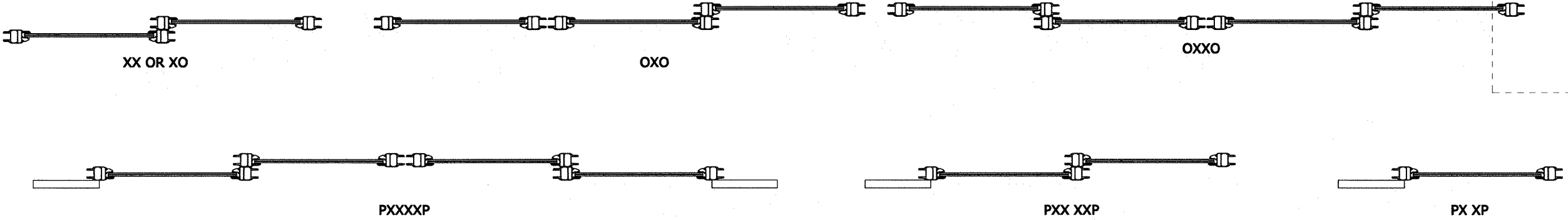
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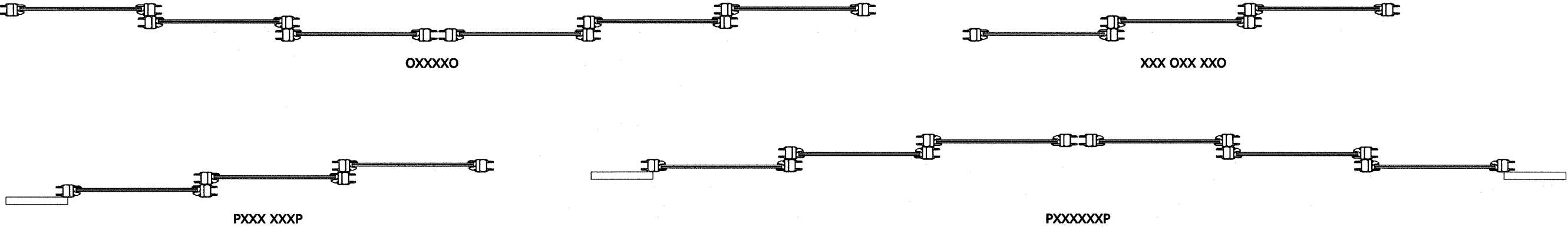
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TRACK CONFIGURATION

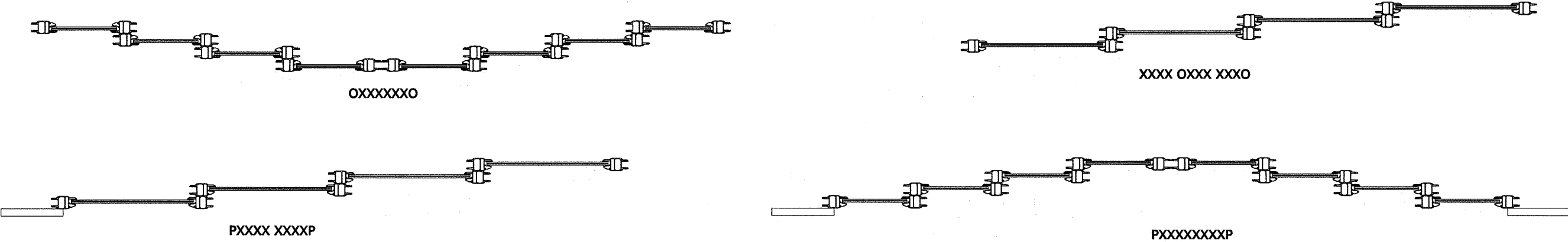
2 TRACK CONFIGURATIONS



3 TRACK CONFIGURATIONS



4 TRACK CONFIGURATIONS



NOTE: OTHER CUSTOM CONFIGURATIONS WITH UNLIMITED DOORS ALLOWED UNDER SITE SPECIFIC CONDITIONS.

"X" = MOVABLE PANEL
 "O" = FIXED PANEL
 "P" = POCKET



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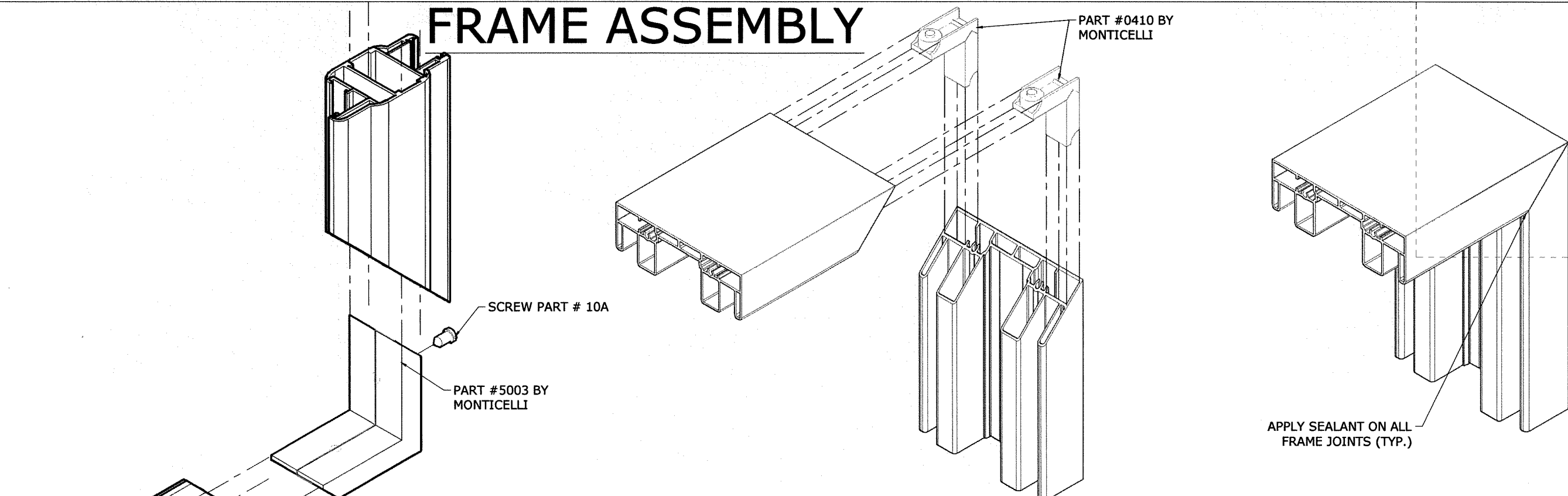
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FRAME ASSEMBLY



PART #0410 BY MONTICELLI

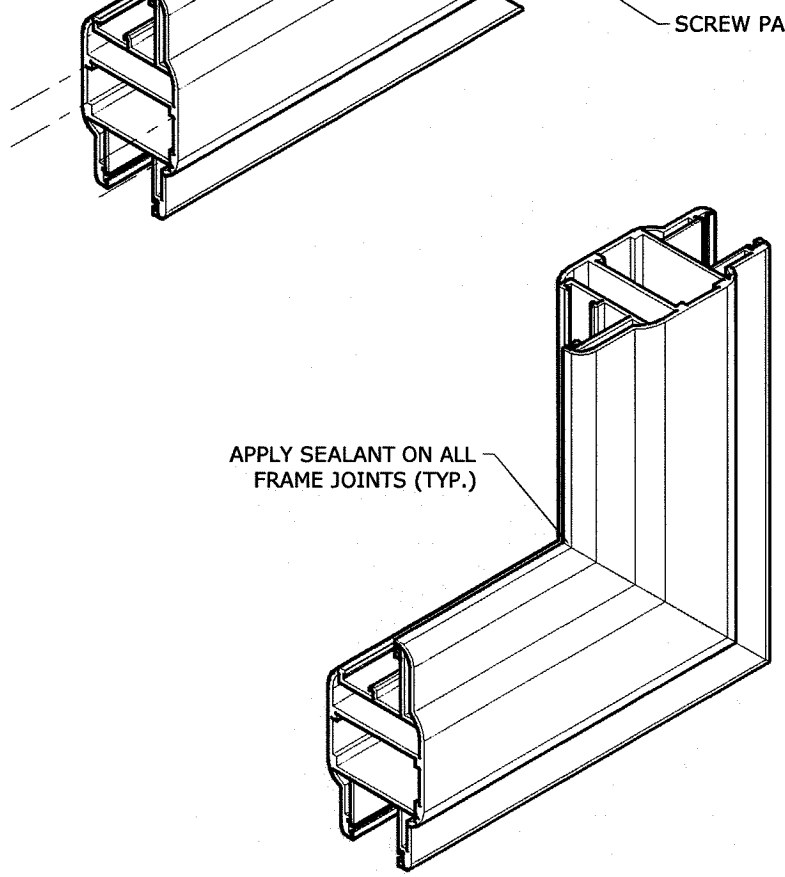
SCREW PART # 10A

PART #5003 BY MONTICELLI

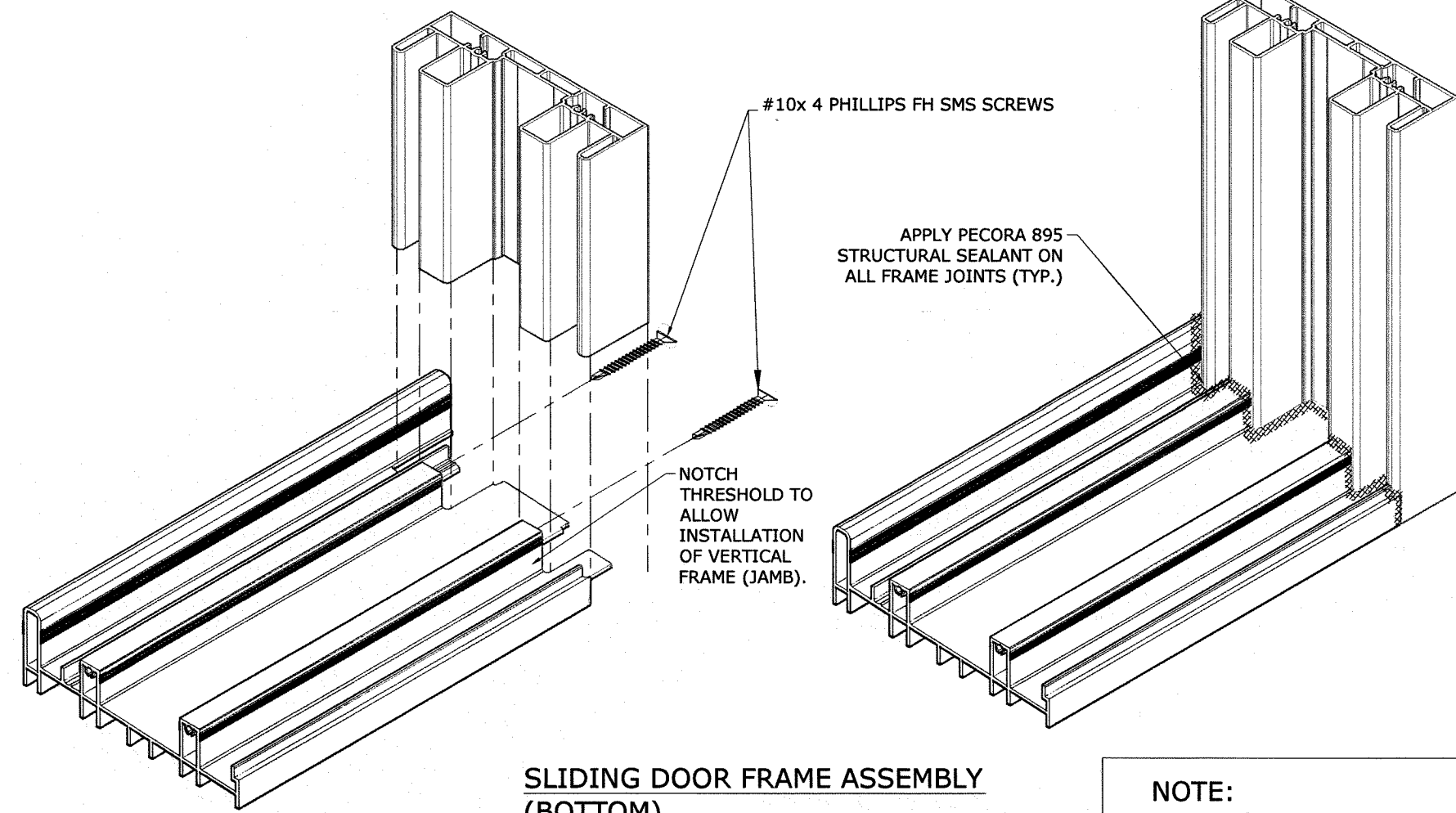
SCREW PART # 10A

APPLY SEALANT ON ALL FRAME JOINTS (TYP.)

SLIDING DOOR FRAME ASSEMBLY (TOP)



APPLY SEALANT ON ALL FRAME JOINTS (TYP.)



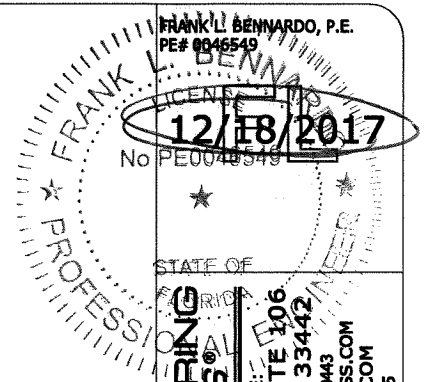
#10x 4 PHILLIPS FH SMS SCREWS

APPLY PECORA 895 STRUCTURAL SEALANT ON ALL FRAME JOINTS (TYP.)

NOTCH THRESHOLD TO ALLOW INSTALLATION OF VERTICAL FRAME (JAMB).

SLIDING DOOR FRAME ASSEMBLY (BOTTOM)

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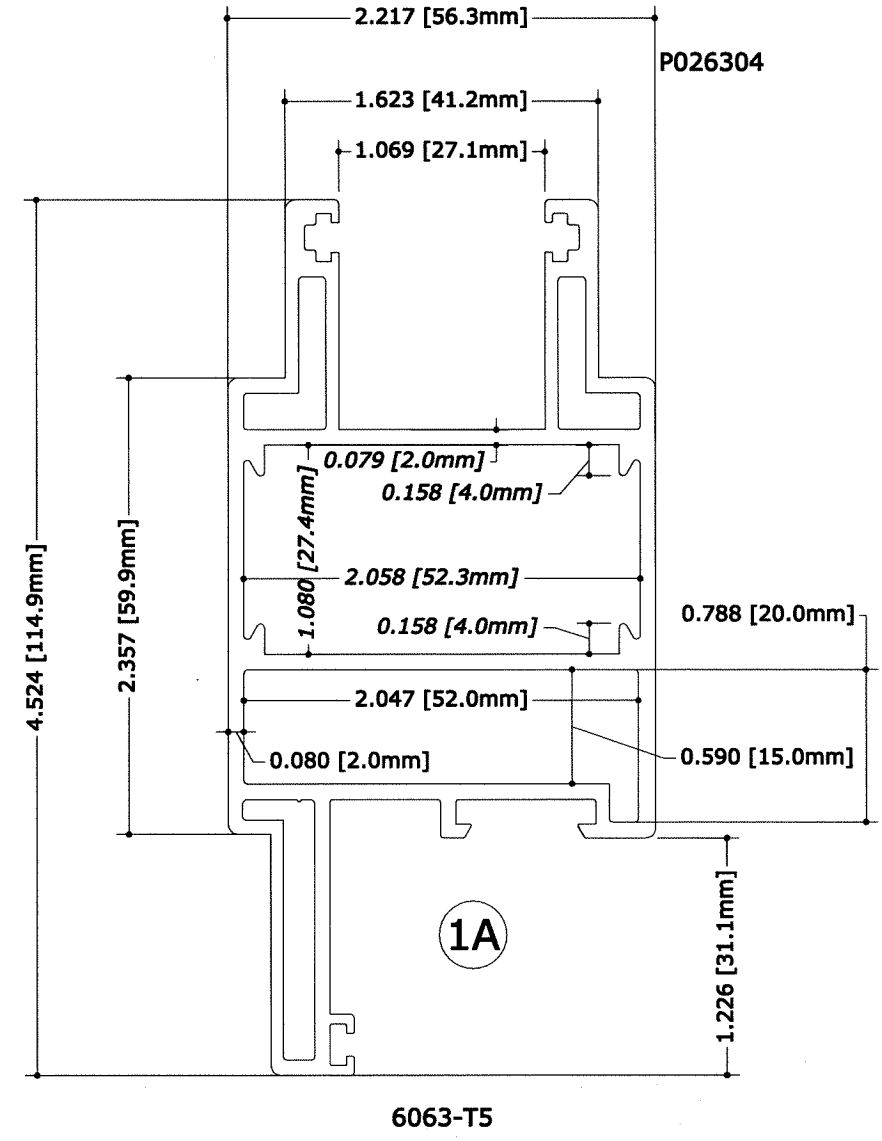
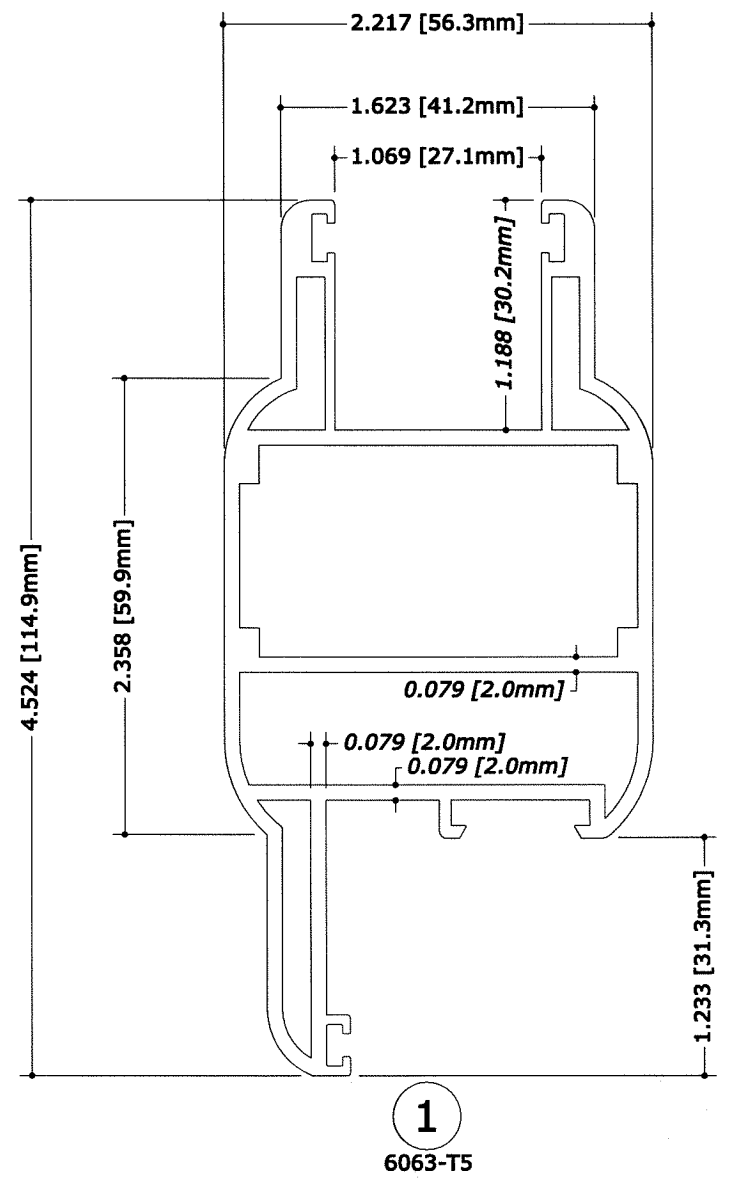
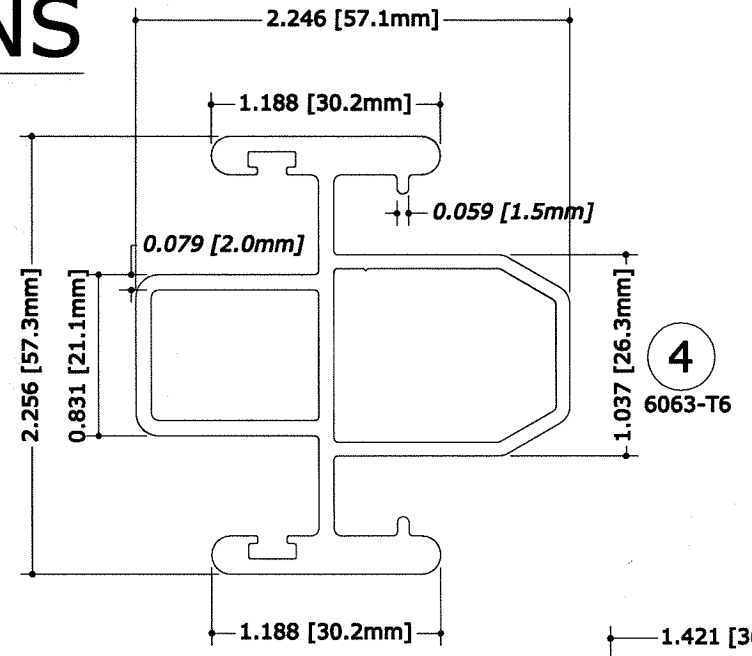
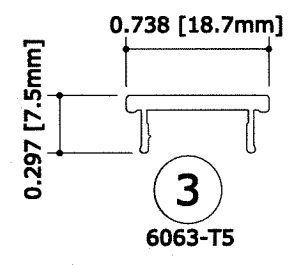
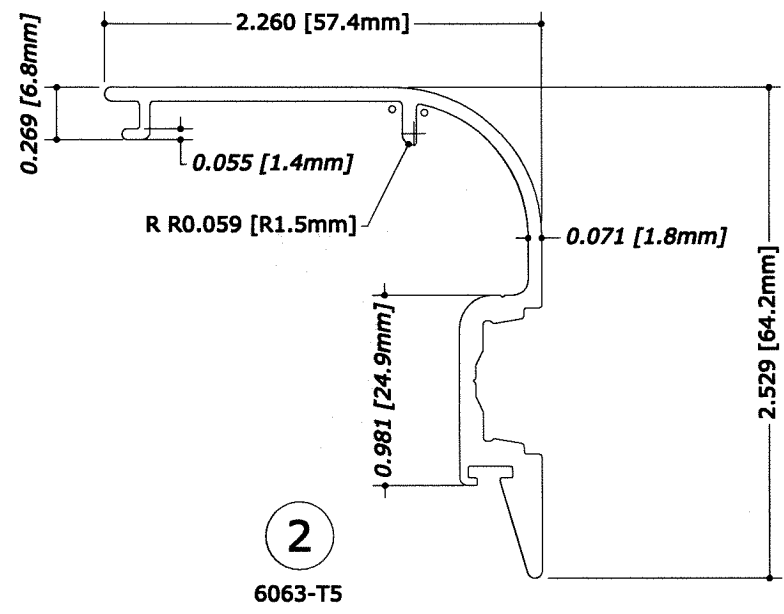
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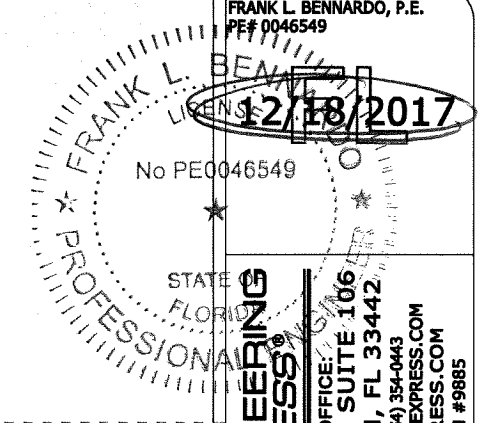
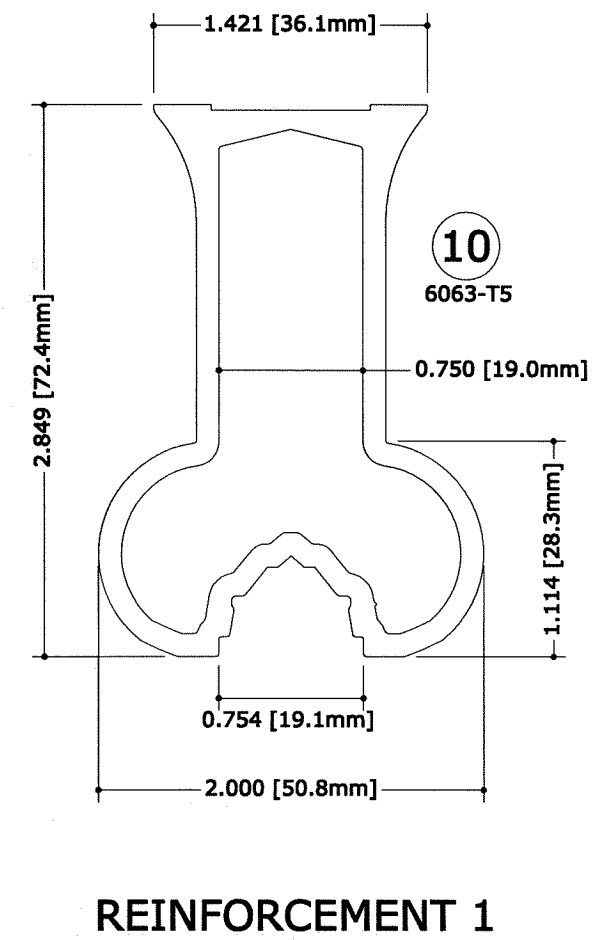
23

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EXTRUSIONS



P026304



FRANK L. BENNARDO, P.E.
 PE# 0046549
 12/18/2017
 No PE0046549
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
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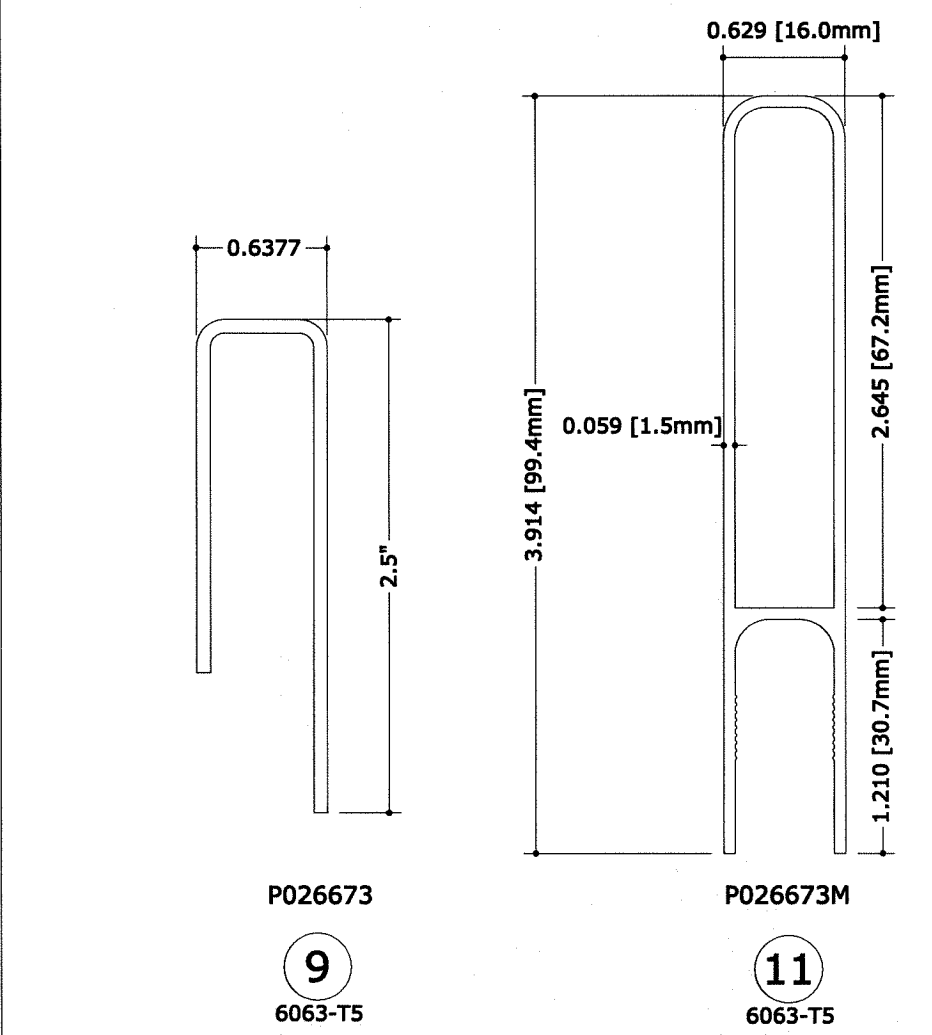
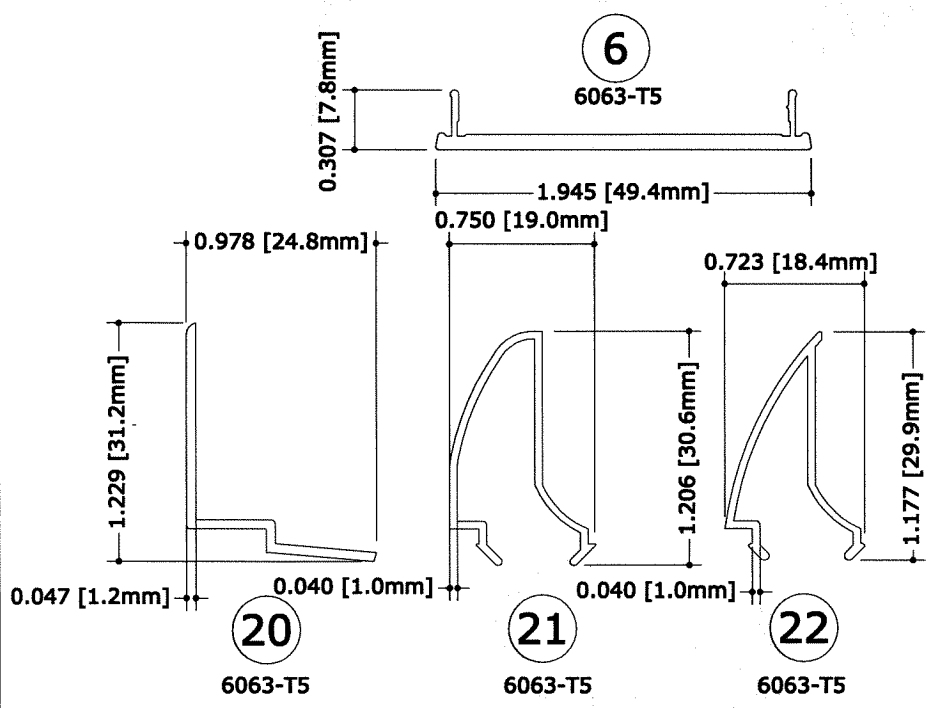
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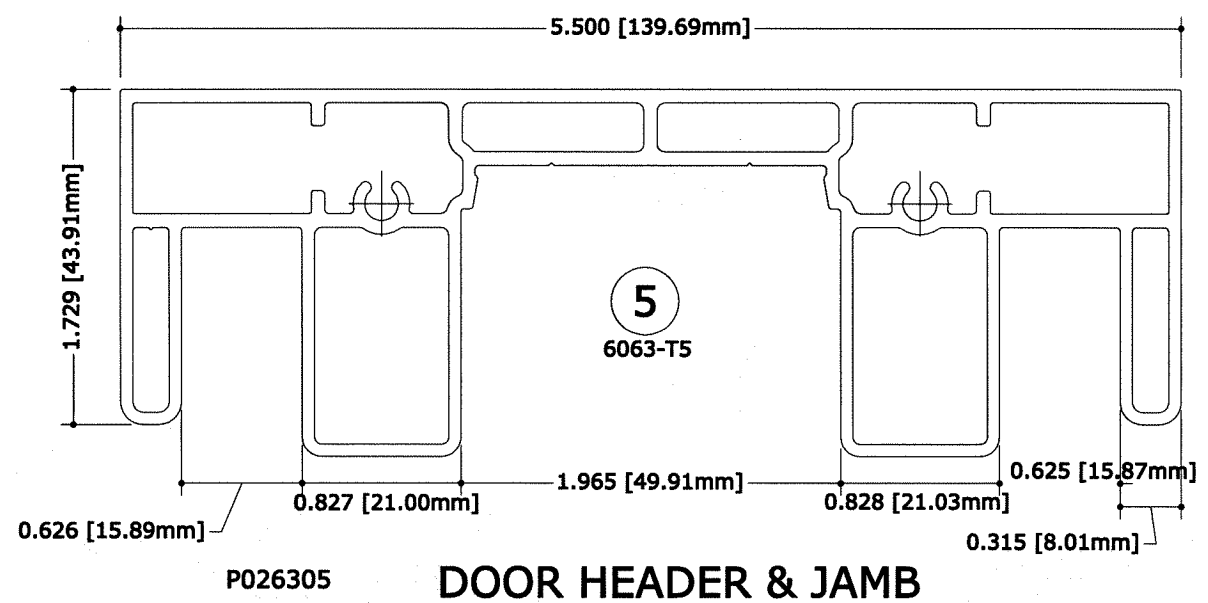
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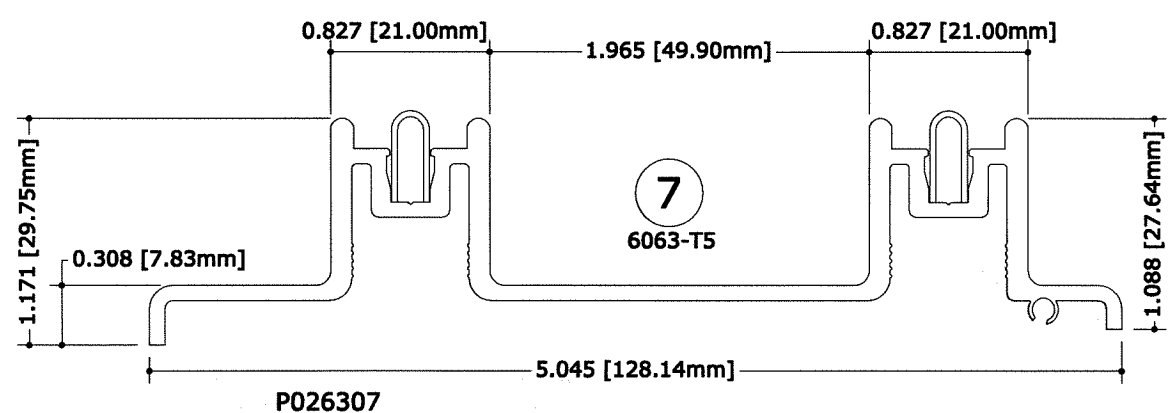
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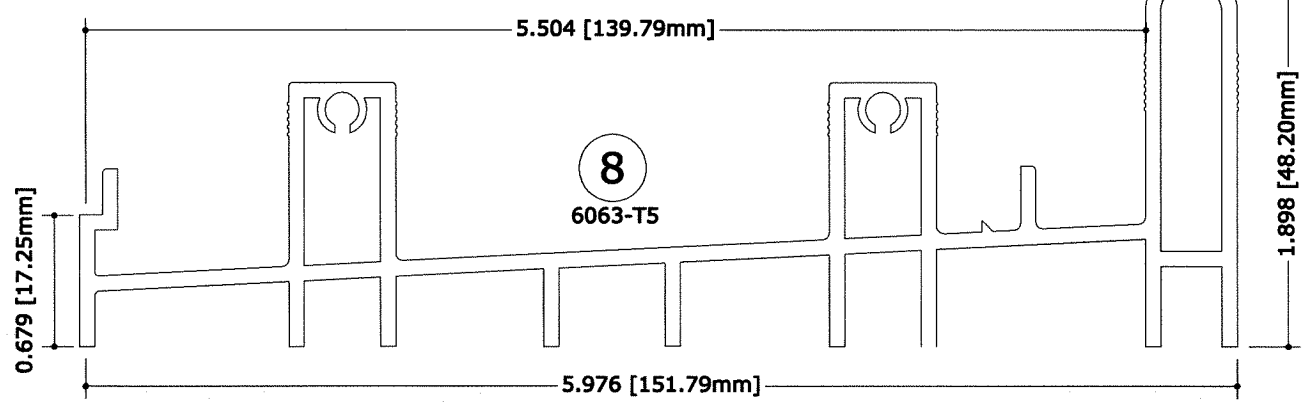
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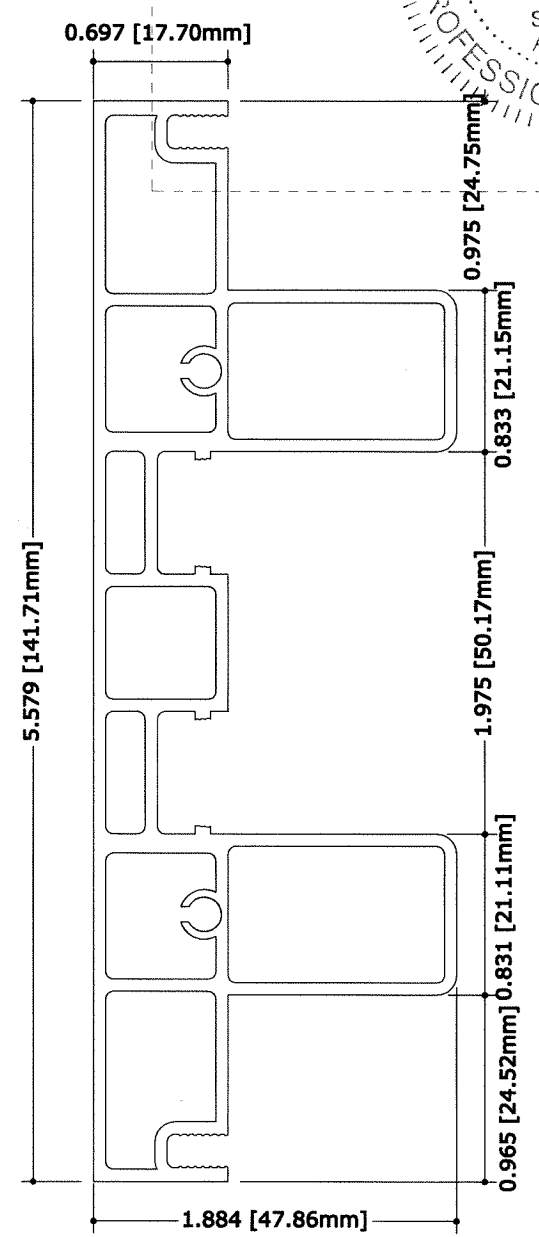
DOOR HEADER & JAMB FRAME



TRACK (SECTION VIEW)



NEW TRACK HOUSING (SECTION VIEW)



ALTERNATE DOOR HEADER & JAMB FRAME

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 PE# 0046549
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 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 LICENSE NO. PE0046549

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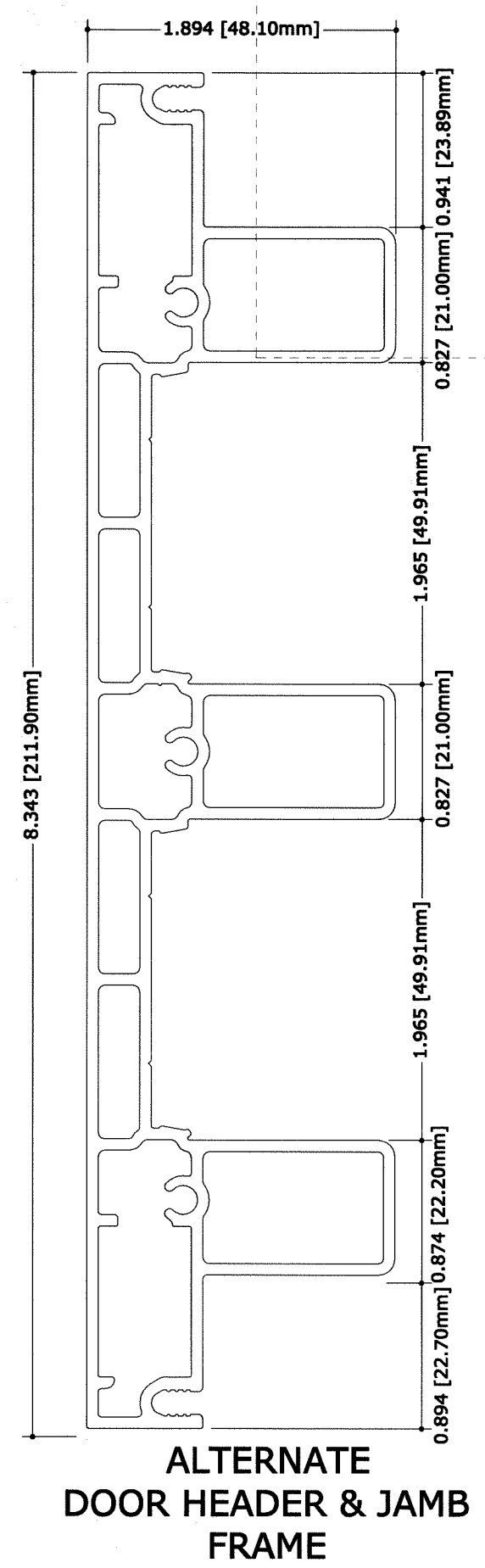
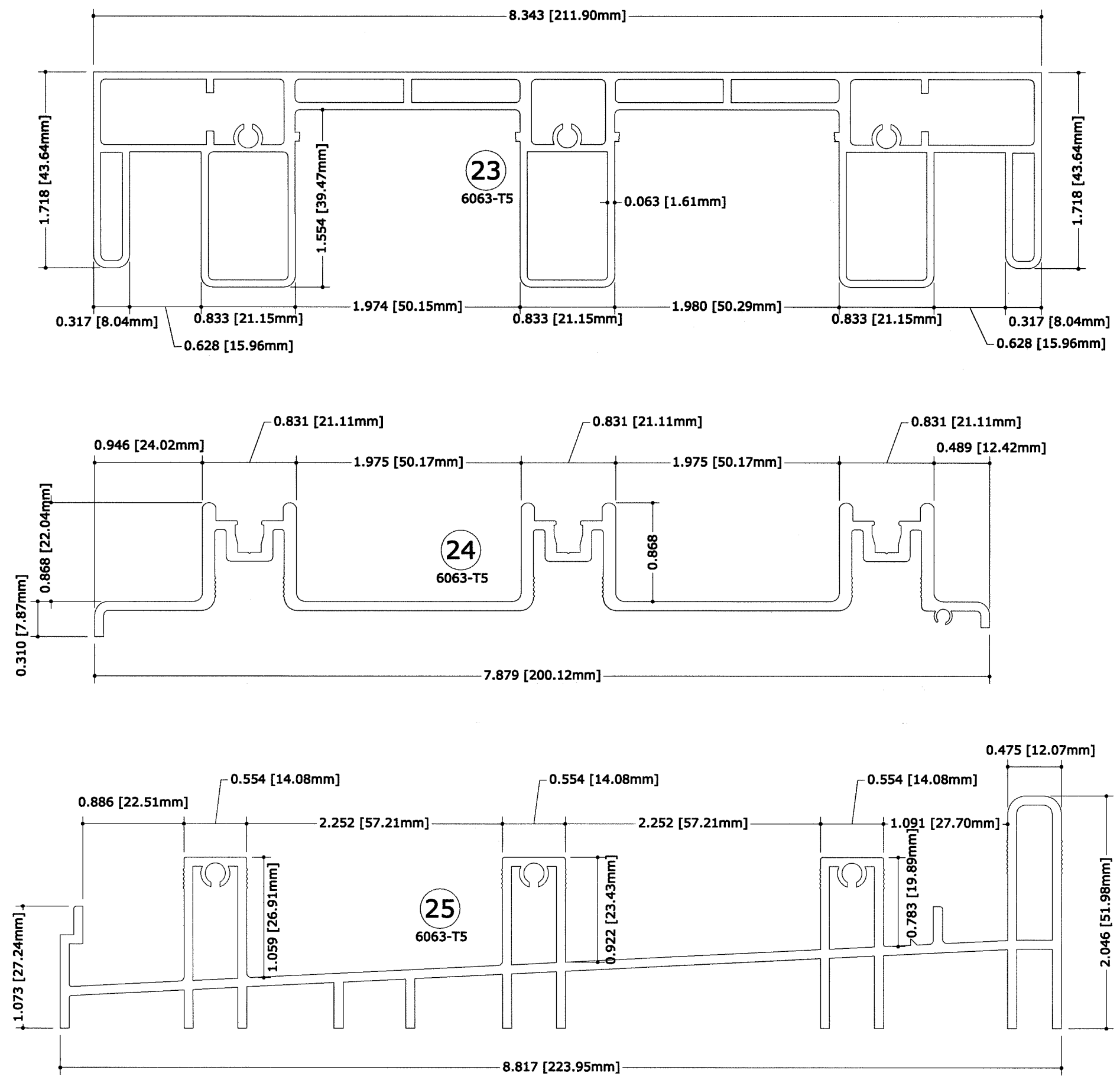
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23A
6063-T5

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2	04/20/16	JEM	FLB	04/20/16
3	12/19/17	JEM	AJP	12/19/17

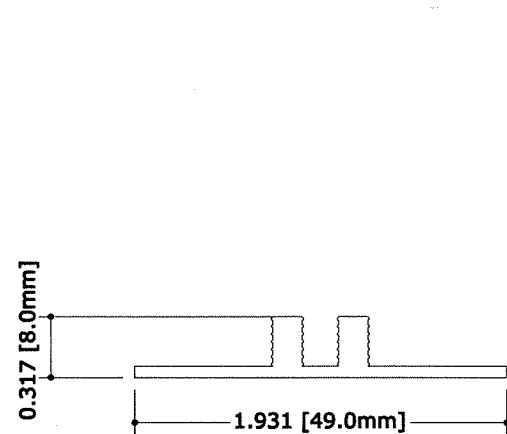
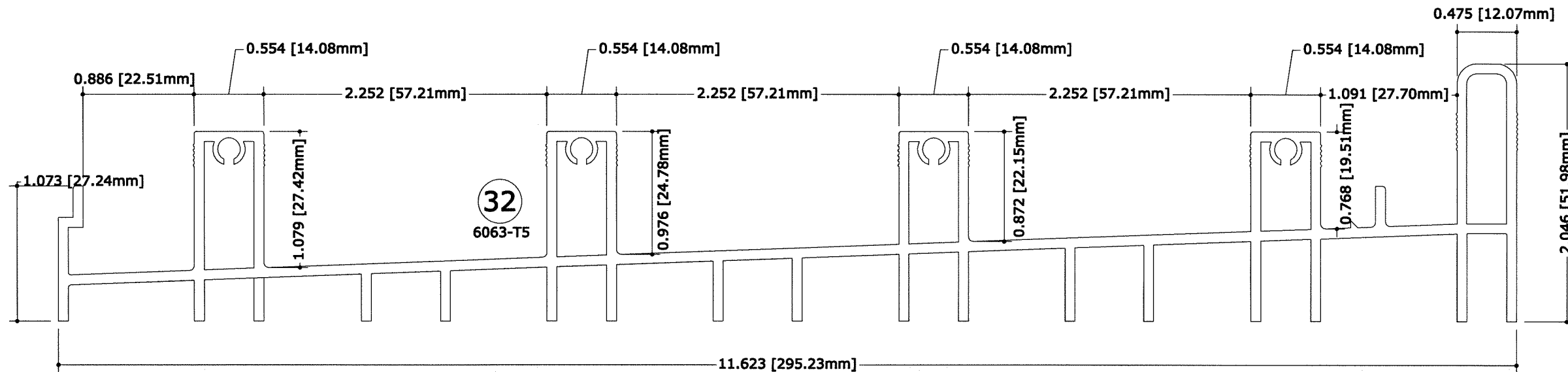
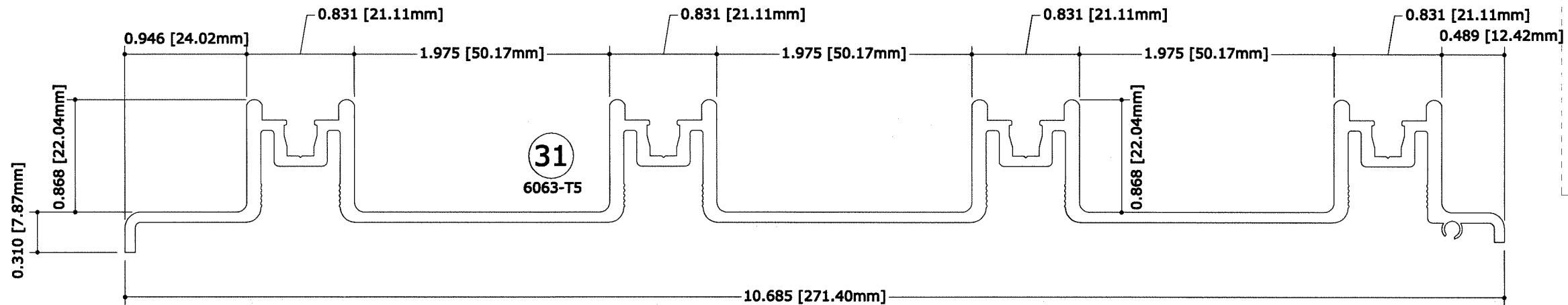
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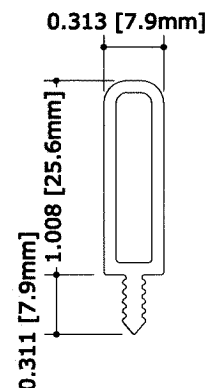
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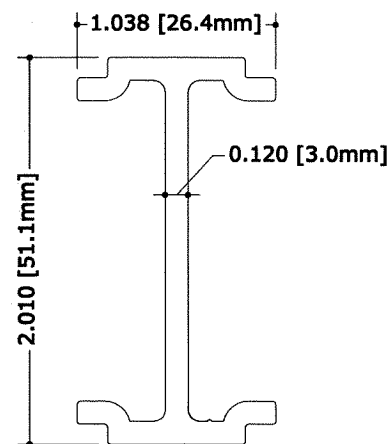
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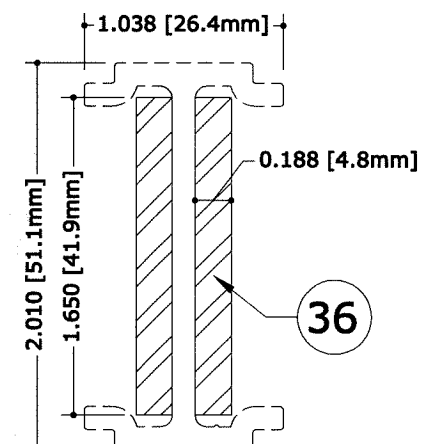
33
6063-T5



34
6063-T5



35 REINFORCEMENT 2



36 REINFORCEMENT 3

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No PE0046549

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DEERFIELD BEACH, FL 33442
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PART #	DESCRIPTION	MATERIAL	REMARKS	
1	P026301	SASH - MOBIL PANEL	6063-T5	GRUPPO PROFILATI
1A	P026301-SHARP	SASH - MOBIL PANEL	6063-T5	GRUPPO PROFILATI
2	P026302	JOINT - SASH JOINT	6063-T5	GRUPPO PROFILATI
3	P026303	CAP - SMALL COVER FOR SASH JT.	6063-T5	GRUPPO PROFILATI
4	P026304	CENTRAL MEETING ASTRAGAL	6063-T6	GRUPPO PROFILATI
5	P026305	FRAME - JAMB/HEAD	6063-T5	GRUPPO PROFILATI
5A	-	ALTERNATE FRAME - JAMB/HEAD	6063-T5	GRUPPO PROFILATI
6	P026306	COVER - LG COVER FOR FRAME	6063-T5	GRUPPO PROFILATI
7	P026307	TRACK COVER FOR BASE TRACK	6063-T5	GRUPPO PROFILATI
8	P026308	TRACK BASE (THRESHOLD)	6063-T5	GRUPPO PROFILATI
9	P026673	SILL RISER 65 MM (2.55")	6063-T5	GRUPPO PROFILATI
10	P026674	SASH REINFORCEMENT	6063-T5	GRUPPO PROFILATI
11	P026673 MODIFIED	SILL RISER 65 MM (4")	6063-T5	GRUPPO PROFILATI
12	5003	CORNER KEY FOR SASH	TBD ?	BY MONTICELLI
13	0410	CORNER KEY FOR FRAME	TBD ?	BY MONTICELLI OR EQUAL
14	TA.81.1981.PRN.212.WSS	TANDEM ROLLER ITEM	S.S.	BY AMESBURY-
15	TA.81.1981.PRN.21.WN	TANDEM ROLLER ITEM	S.S.	BY AMESBURY
16	SS.ADH.3006.84	LOCK - SLIDING DOOR LOCK	S.S.	BY AMESBURY
17	SS.ADH.3021.84	KEEPER	S.S.	BY AMESBURY
18	ULTRA FAB	WEATHER SEAL - TRIFIN	WEATHERING	BY TRIFIN
19	PECORA 895	SILICON FOR GLAZING	SILCONE	BY PECORA
20	P026309	INSULATED GLASS BEAD	6063-T5	GRUPPO PROFILATI
21	P026310	LAMINATED GLASS BEAD	6063-T5	GRUPPO PROFILATI
22	P026310 ALTERNATE	LAMINATED GLASS BEAD	6063-T5	GRUPPO PROFILATI
23	P026305-MOD	3-TRACK (HEAD/JAMB)	6063-T5	GRUPPO PROFILATI
23A	-	ALTERNATE 3-TRACK (HEAD/JAMB)	6063-T5	GRUPPO PROFILATI
24	P026307-MOD	3-TRACK SILL COVER	6063-T5	GRUPPO PROFILATI
25	P026308-MOD	3-TRACK SILL BASE	6063-T5	GRUPPO PROFILATI
26	-	2"x2" 40 PPI FOAM	FOAM	AT ENDS & 6" FROM ENDS & 12" O.C. MAX - BALANCE
27	-	2 3/4"x1" 40 PPI FOAM	FOAM	ON ONE SIDE OF WEEP HOLE
28	-	2 3/4"x1/2" 40 PPI FOAM	FOAM	ON OPP. SIDE OF #26
29	-	2"x4" DUST PLUG	-	ULTRAFAB (UNDER EACH INTERLOCK AND LOCKSTILE)
30	-	DOOR HANDLE	-	-
31	-	4-TRACK SILL COVER	6063-T5	GRUPPO PROFILATI
32	-	4-TRACK SILL BASE	6063-T5	GRUPPO PROFILATI
33	-	4-TRACK FRAME ADAPTOR	6063-T5	GRUPPO PROFILATI
34	-	DOOR FRAME STOP	6063-T5	GRUPPO PROFILATI
35	-	ALUMINUM REINFORCEMENT	6063-T5	
36	-	STEEL REINFORCEMENT ADD-ON	A-36	(2) 1.65"x 0.188" STEEL REINFORCEMENT BARS

FRANK L. BENNARDO, P.E.
 PE# 0046549
 BEACH, FL
 12/18/2017
 No PE0046549
 STATE OF FLORIDA
ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-0443
 E: HELLO@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM
 CERT OF AUTH #9885

LA FINESTRA, LC
 2790 NW 104TH COURT
 DORAL, FL
 (305) 599-8093
 EKV-9000 SLIDING GLASS DOOR
 2017 FLORIDA BUILDING CODE UPDATE

REMARKS	DRWN	CHKD	DATE
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