



Product Approval
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OFFICE OF THE SECRETARY

FL #	FL18429-R1	
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	Swinging 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	FL18429 R1 COI Indep.pdf	
Referenced Standard and Year (of Standard)	Standard	Year
	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 12/18/2017
Date Pending FBC Approval 12/22/2017
Date Approved 02/13/2018

Summary of Products

FL #	Model, Number or Name	Description
18429.1	EKU 53 Outswing French Door	EKU 53 Outswing French Door (LMI + SMI)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +110/-110 Other:		Installation Instructions FL18429_R1_II_Dwg.pdf Verified By: Frank L. Bennardo, P.E. PE-0046549 Created by Independent Third Party: Yes Evaluation Reports FL18429_R1_AE_Eval.pdf Created by Independent Third Party: Yes

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[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



Product Evaluation Report

December 18, 2017

Application Number: FL#18429-R1
EX Project Number: 15-2824

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

Product Name & Description: Series: EKU 53 Outswing French Door
Large Missile Impact Resistant, Level "D"

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 #15-2824 titled "Series: EKU 53 Outswing French Door", sheets 1- 15, prepared by Engineering Express, signed & sealed by Frank L. Bennardo, P.E. is an integral part of this Evaluation Report.

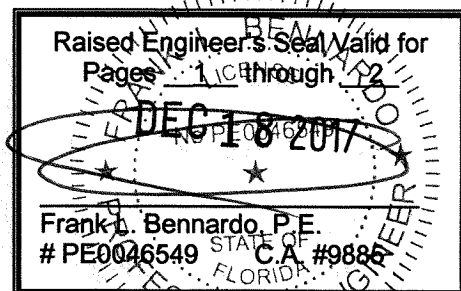
- **TEST REPORTS**

Uniform static structural, large missile impact resistance and cyclic loading performance have been tested in accordance with TAS 201, TAS 202 and 203 test standards per test report(s) HETI-08-2005, HETI-08-2020, HETI-08-2163, HETI-08-2076A, HETI-11-3365, HETI-09-2627, HETI-09-2677, HETI-10-3002, HETI-10-3003, HETI-10-3009, HETI-10-3010 by Hurricane Engineering and Testing, Inc. and signed and sealed by Candido Font, P.E; HETI-17-5018 and HETI-17-5019 by Hurricane Engineering and Testing, Inc. and signed and sealed by Rafael Droz-Seda, P.E; FTL-4531, FTL-3881 by Fenestration Testing Laboratory, Inc. and signed and sealed by Edmundo Largaespada, 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)
- Trosifol Interlayer by Kuraray America, Inc. (NOA # 16-1117.01)
- Saflex Clear and Color by Eastman Chemical Company (NOA# 17-0712.05)

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.

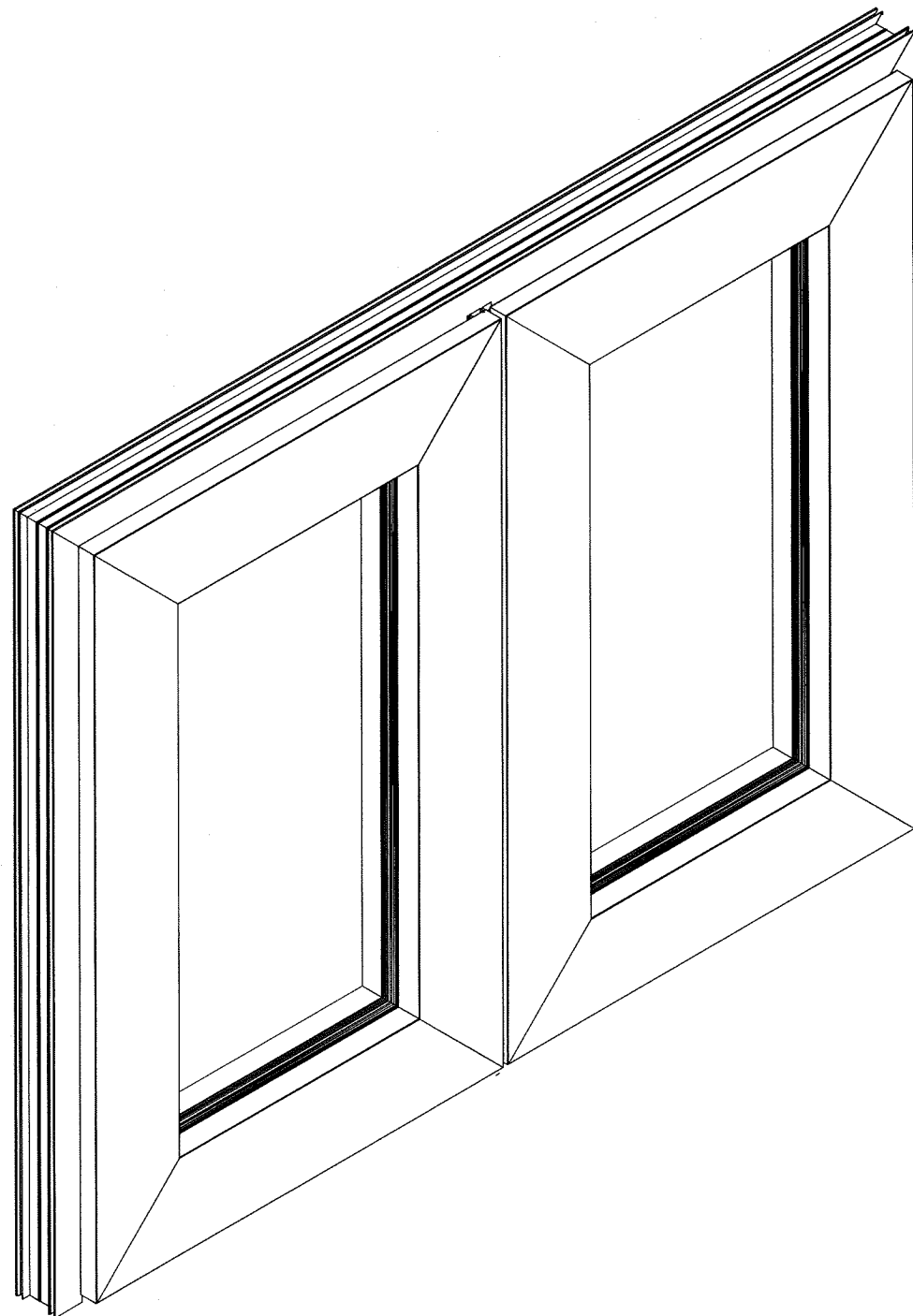
All components which are permanently installed shall be protected against corrosion, contamination, and other such damage at all times.

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

LA FINESTRA, LC

SERIES: EKU 53 OUTSWING FRENCH DOOR

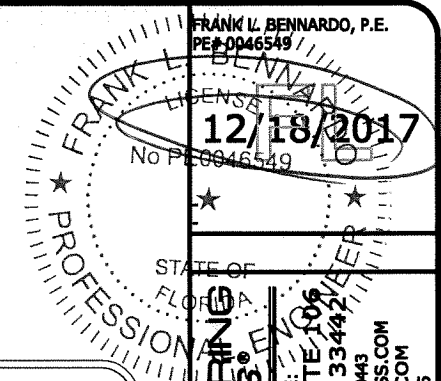
LARGE MISSILE IMPACT RESISTANT - LEVEL D



SHEET INDEX	
# SHEET	DESCRIPTION
1	COVER SHEET
2	ELEVATIONS
3	ELEVATIONS
4	ANCHORING SECTIONS
5	ANCHORING SECTIONS
6	ANCHORING SECTIONS
7	PROFILE COMBINATIONS
8	PROFILE COMBINATIONS
9	ANTIPANIC DEVICE DETAILS
10	ANTIPANIC DEVICE DETAILS
11	ANTIPANIC DEVICE DETAILS
12	LOADING TABLES
13	FRAME ASSEMBLY
14	EXTRUSIONS
15	BILL OF MATERIALS
15	TOTAL

GENERAL NOTES:

- THIS SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SIXTH EDITION (2017) PER
 - TAS 201 / 202 / 203
 - ASTM E330-14
 FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). AS QUALIFIED IN TEST REPORT #HETI-08-2005, HETI-08-2020, HETI-08-2163, HETI-08-2076A, HETI-11-3365, HETI-09-2627, HETI-09-2677, HETI-10-3002, HETI-10-3003, HETI-10-3009, HETI-10-3010 HETI-17-5019 & HETI-17-5018 BY HURRICANE ENGINEERING & TESTING, INC. FTL-4531 & FTL-3881 BY FENESTRATION TESTING LABORATORY, INC.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- 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.
- THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- 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.
- ALL CONCRETE ANCHORS SPECIFIED HEREIN REFER TO 1/4" Ø ELCO ULTRACON OR SIMILAR (UNLESS NOTED OTHERWISE). FASTENED TO 3,000 PSI MIN. NON-CRACKED CONCRETE (BY OTHERS) INSTALL ALL CONCRETE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL FASTENERS INTO METAL SUBSTRATES TO BE 1/4" (GR 5 OR SIMILAR Fy) Ø UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ALL EXTRUSIONS SHALL BE STEEL 6063-T5 ALUMINUM OR BETTER U.N.O.
- GLAZING ILLUSTRATED HEREIN UTILIZES SENTRYGLAS INTERLAYER BY KURARAY AMERICA INC. (NOA# 14-0916.11), TROSIFOL INTERLAYER BY KURARAY AMERICA INC. (NOA# 16-1117.01), & SAFLEX CLEAR AND COLOR BY EASTMAN CHEMICAL COMPANY (NOA# 17-0712.05)
- THE CONTRACTOR IS RESPONSIBLE TO ISOLATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:
 LA FINESTRA, INC.
 2790 NW 104TH COURT
 DORAL, FL 33172
 TAS 201/202/203
 APPROVED BY FLORIDA BUILDING COMMISSION
 FLORIDA PRODUCT APPROVAL NUMBER



ENGINEERING EXPRESS
 CORPORATE OFFICE:
 160 SW 12th AVE, SUITE 106
 DEERFIELD BEACH, FL 33442
 P: (954) 354-0660 F: (954) 354-9443
 E: HELLO@ENGINEERINGEXPRESS.COM
 ENGINEERINGEXPRESS.COM
 CERT OF AUTH #9885

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

SERIES: EKU 53 OUTSWING FRENCH DOOR
 FLORIDA APPROVAL FL #18429.1
 FLORIDA BUILDING CODE SIXTH EDITION (2017)

REMARKS	DRWN	CHKD	DATE
INT ISSUE	LAO	FLB	11/27/17

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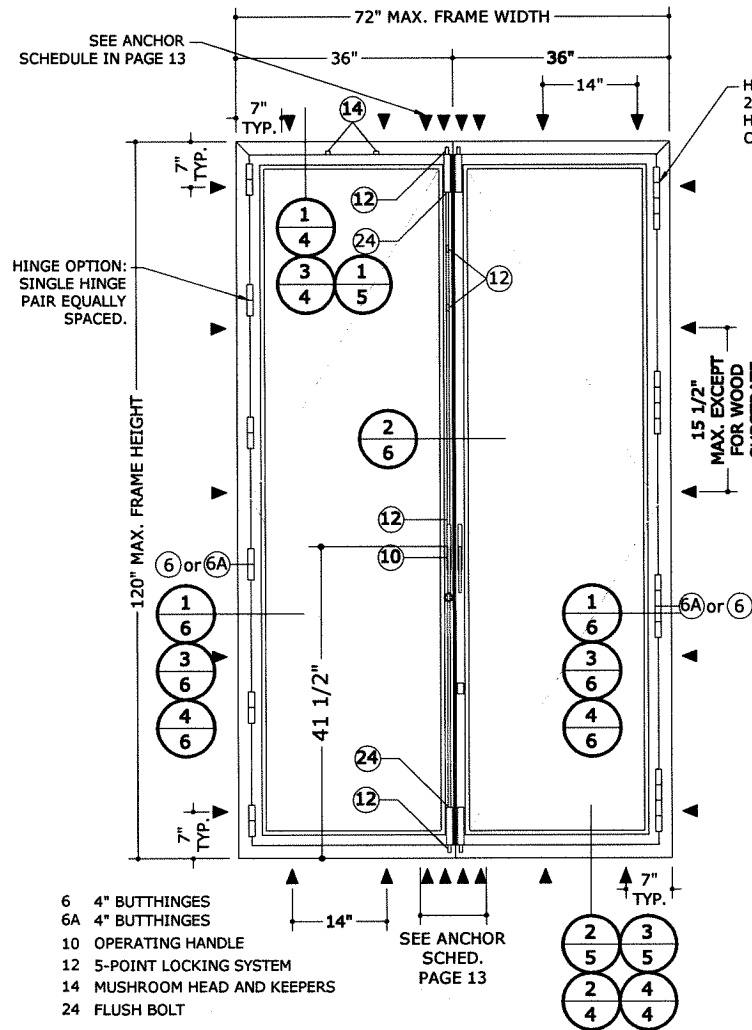
15-2824

SCALE: SEE DETAILS

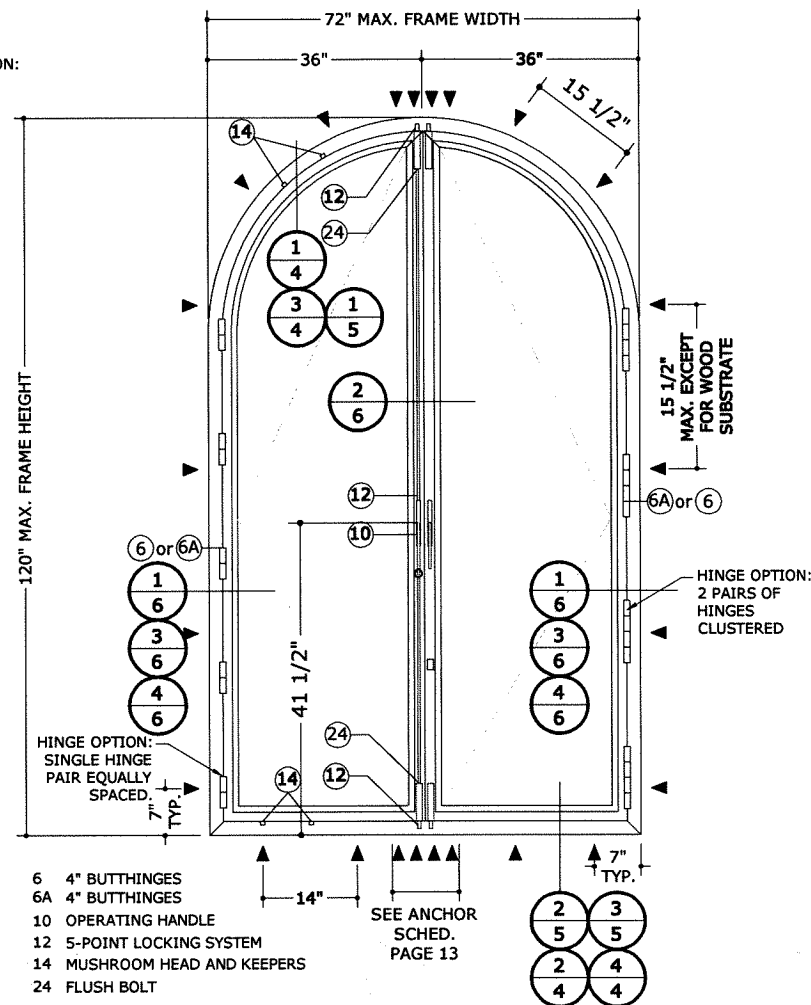
1 OF 15

FL #18429.1-R1

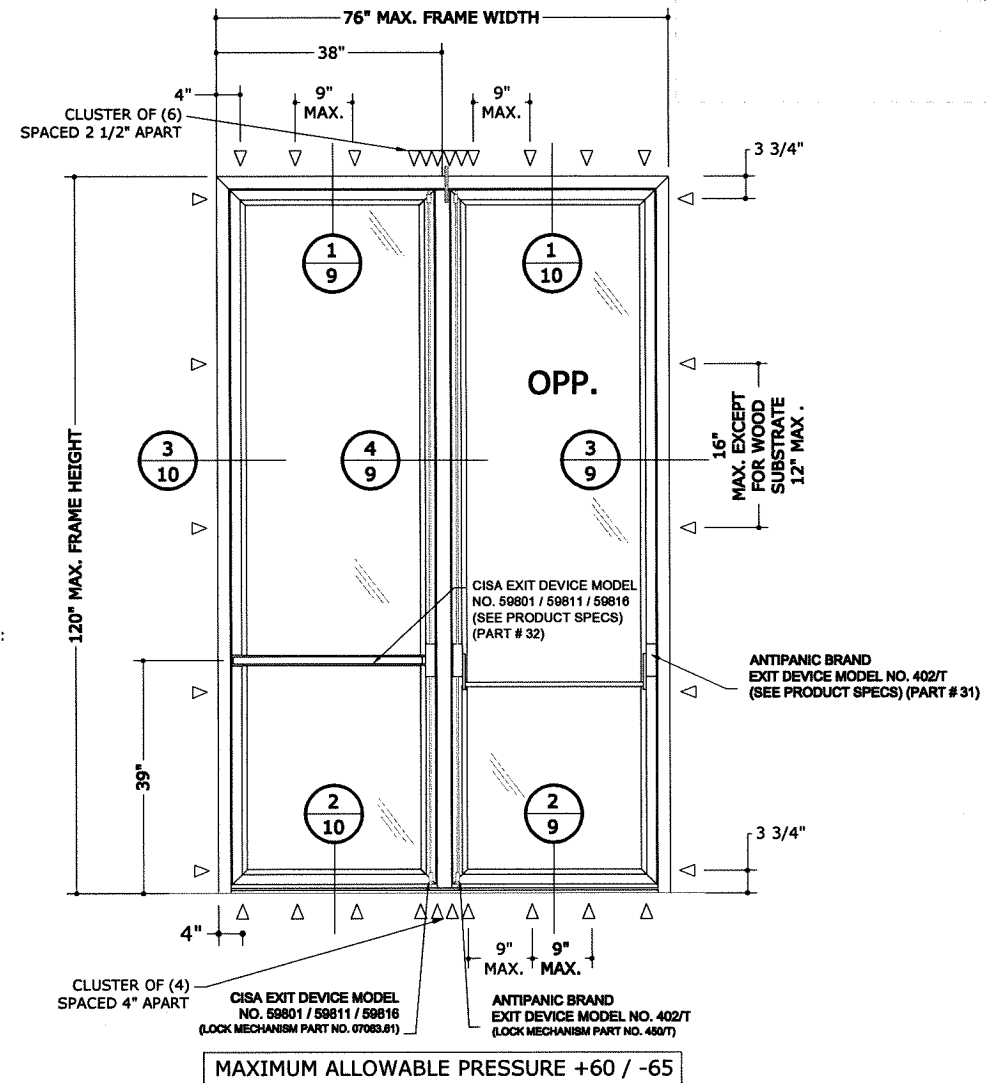
V:\Projects\15-2824 ECU-53 OS French Door - Validate FL18429.1 for 2014 FBCWFP2017 FBC Update\Drawings\15-242a La Finestra Series ECU 53 French Door.dwg 12/19/2017 - 4:26pm zachr



TYPICAL ELEVATION
LOOKING FROM OUTSIDE IN



TYPICAL ELEVATION
LOOKING FROM OUTSIDE IN



TYPICAL ELEVATION
LOOKING FROM OUTSIDE IN

ANCHOR SCHEDULE FOR DOOR WITH PANIC DEVICE (ONLY)

- ▽ ANCHOR TYPE: 1/4" ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO 3,000 PSI CONCRETE OR 1 3/4" MIN. EMBEDMENT INTO GROUT FILLED MASONRY, 2 1/2" SPACING MIN AND 2 1/2" EDGE DISTANCE FROM EDGE.
- ▽ ANCHOR TYPE: #14 P.H.S.M.S OR #14 SHEET METAL SCREW INTO 1/8" THICK A36 MEMBER. WITH 1" MIN. EDGE DISTANCE EDGE.
- ANCHOR TYPE: 1/4" ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO SOUTHERN YELLOW PINE #2 MIN. AND 1" MIN. EDGE DISTANCE FROM ANY WOOD EDGE.

HINGE OPTION PER LEAF: (6) or (6A)

1. RECTANGULAR DOOR 120' TALL:
 - (6) INDIVIDUALS PAIRS OR (4) CLUSTERS OF 2 PAIRS
2. ARCH TOP DOOR 120' TALL:
 - (5) INDIVIDUALS PAIRS OR (4) CLUSTERS OF 2 PAIRS
3. RECTANGULAR DOOR 96' TALL:
 - (4) INDIVIDUALS PAIRS OR (3) CLUSTERS OF 2 PAIRS
4. ARCH TOP DOOR 120' TALL:
 - (4) INDIVIDUALS PAIRS OR (3) CLUSTERS OF 2 PAIRS

FRANK L. BENNARDO, P.E.
PE# 0046549
12/18/2017
No PE0046549

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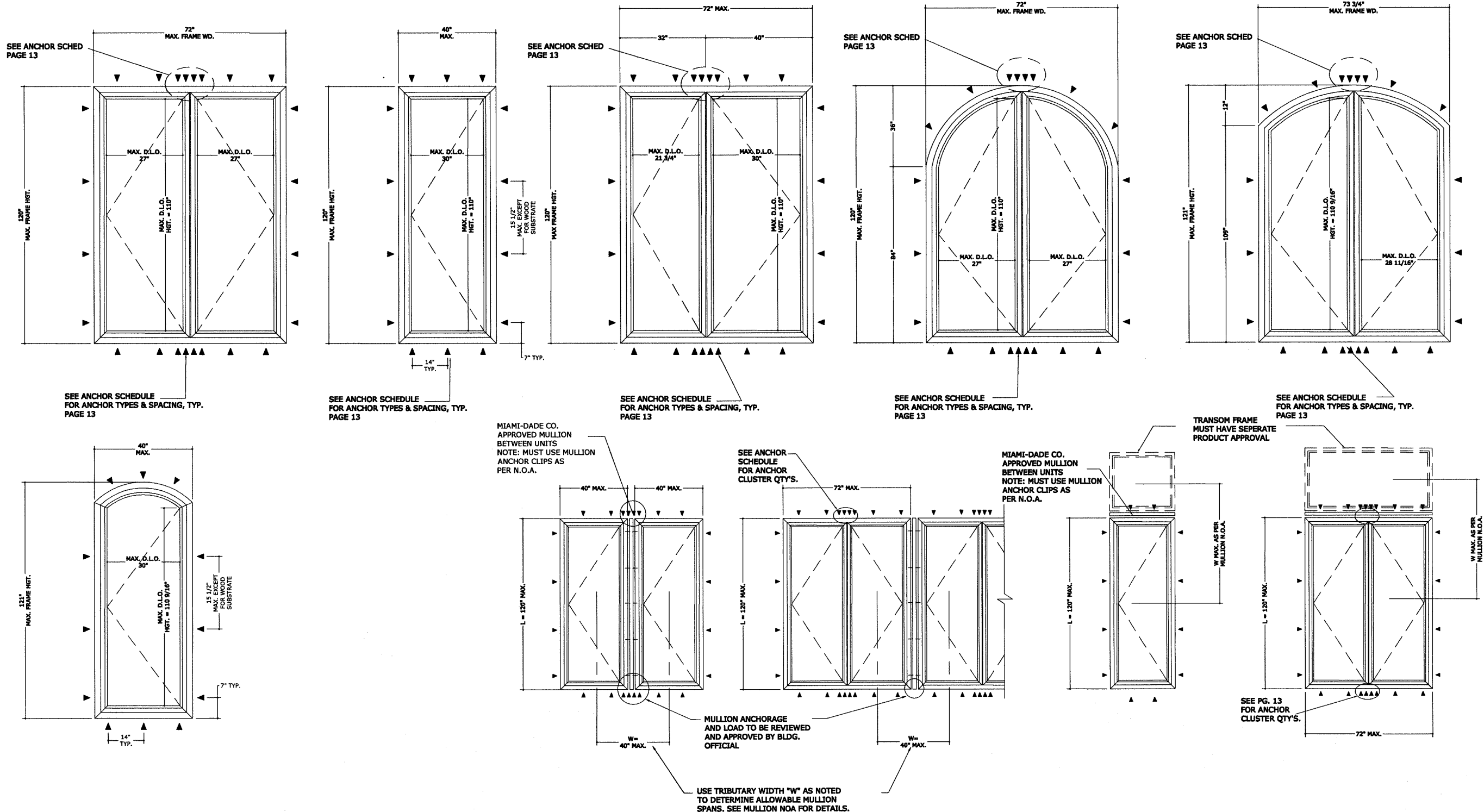
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15-2824
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2 OF 15

ALTERNATE CONFIGURATIONS

UNITS MAY INSTALLED WITH A MIAMI-DADE COUNTY APPROVED MULLION BETWEEN EACH DOOR AND/OR FRAME. THE LOWEST DESIGN PRESSURE FOR THE DOOR, TRANSOM OR MULLION WILL CONTROL



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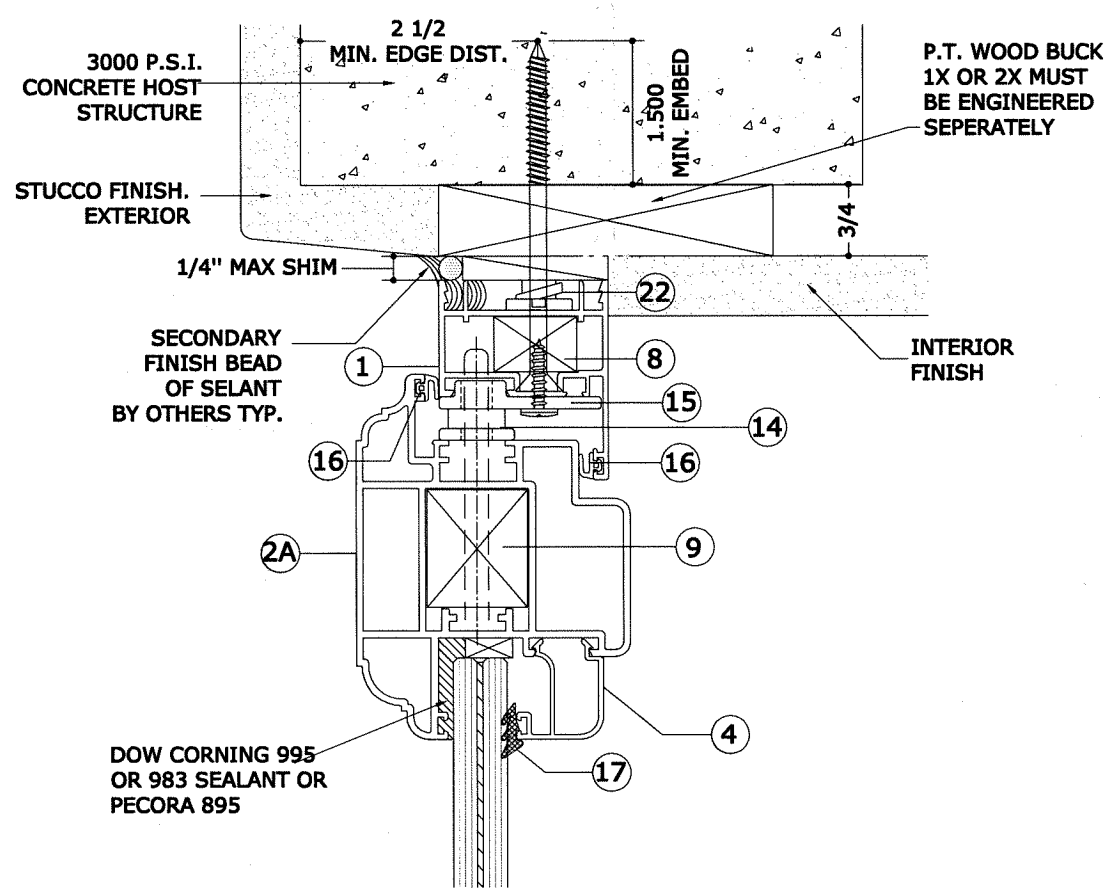
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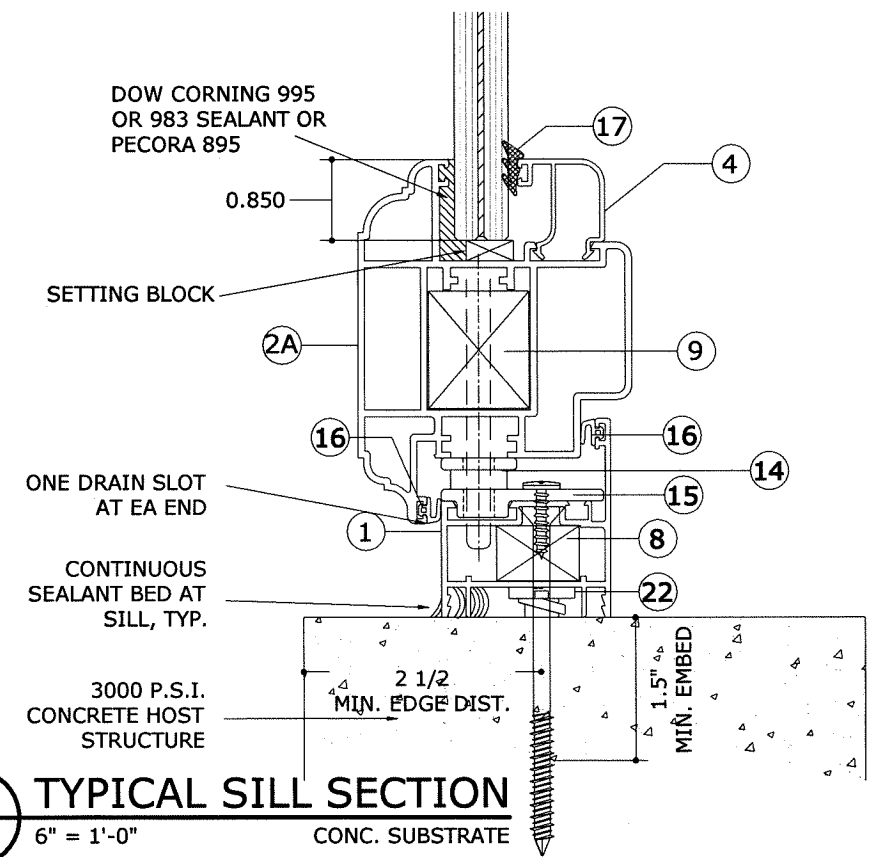
12/18/2017 - 4:26pm zacr V:\Projects\15-2824 EKU-53 OS French Door - Validate FL 18429.1 for 2014 FBC\WP\2017 FBC Update\Drawings\15-242a La Finestra Series EKU 53 French Door.dwg

ANCHORING SECTIONS

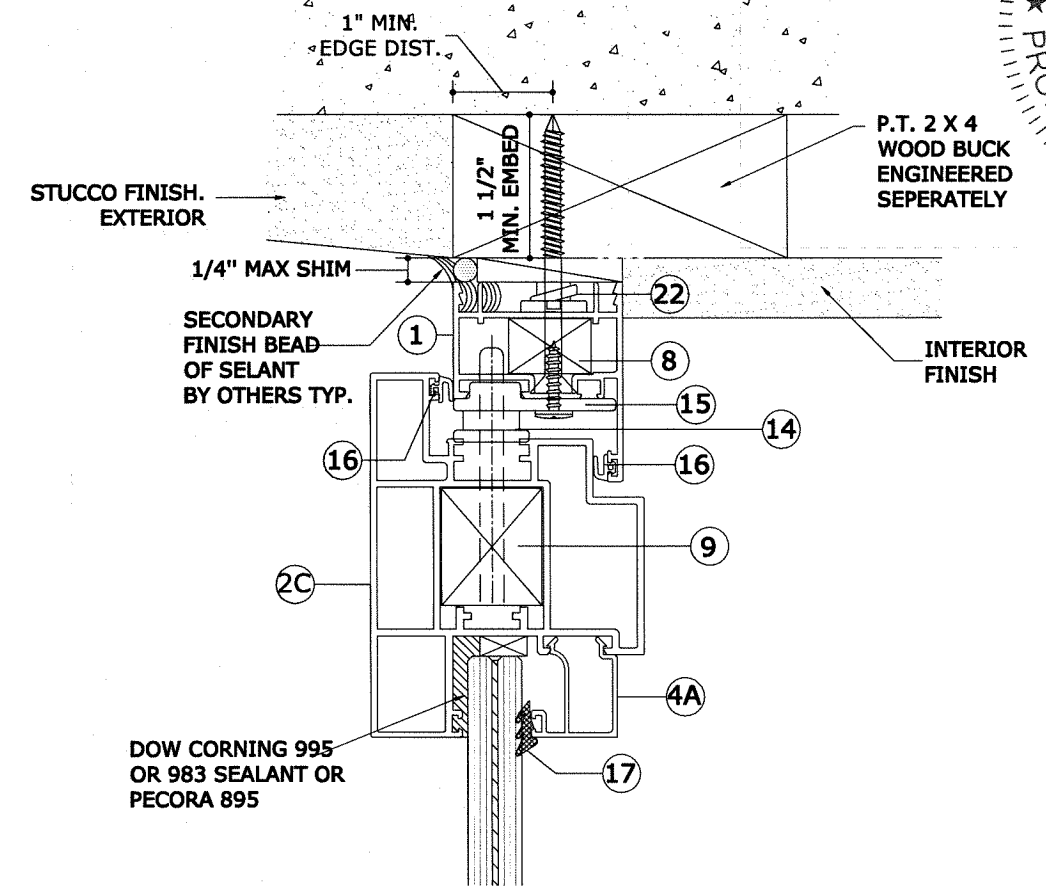
1 TYPICAL HEADER SECTION
4 6" = 1'-0" CONC. SUBSTRATE



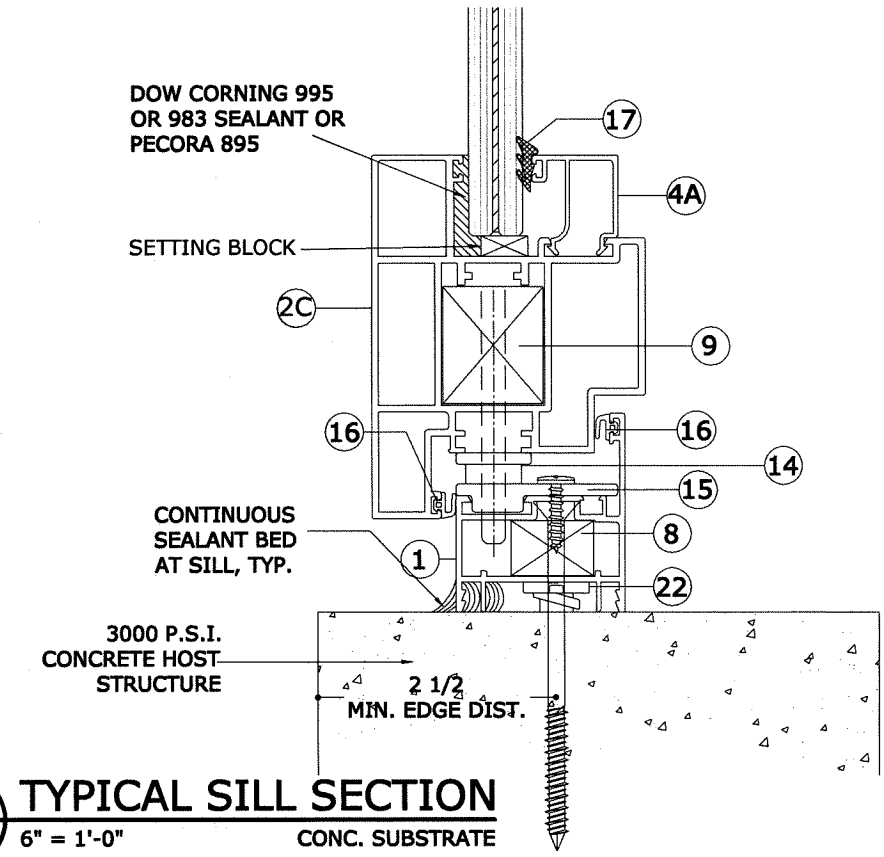
2 TYPICAL SILL SECTION
4 6" = 1'-0" CONC. SUBSTRATE



3 TYPICAL HEADER SECTION
4 6" = 1'-0" WOOD SUBSTRATE



4 TYPICAL SILL SECTION
4 6" = 1'-0" CONC. SUBSTRATE



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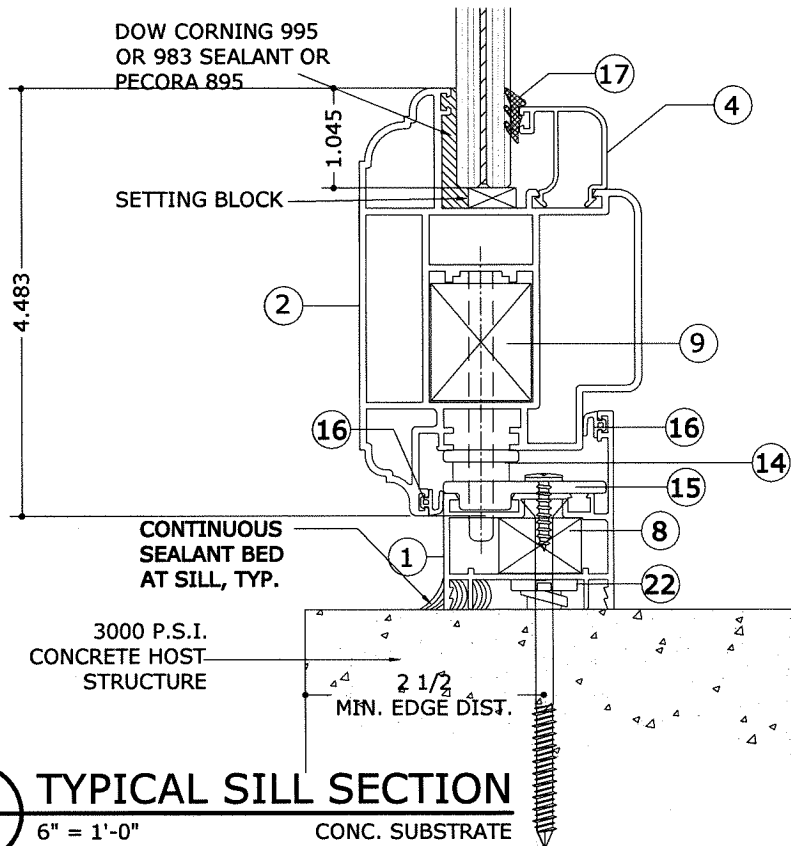
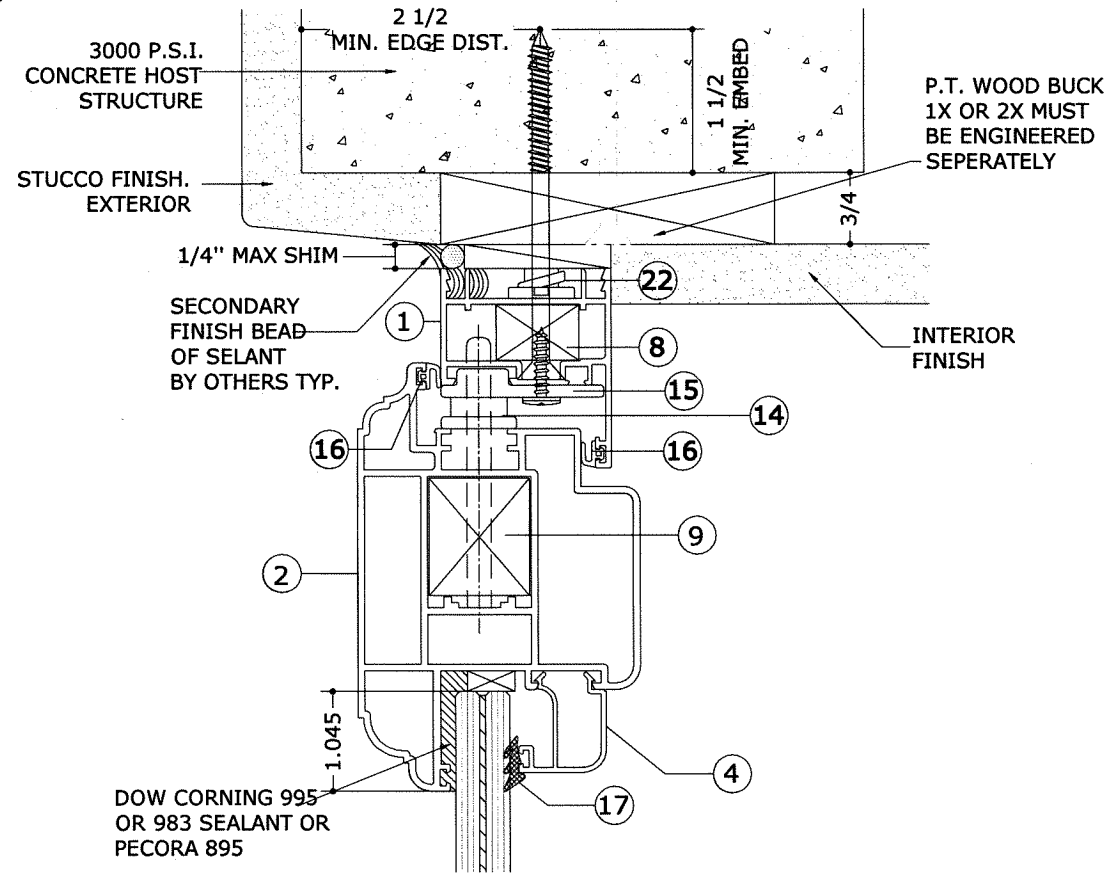
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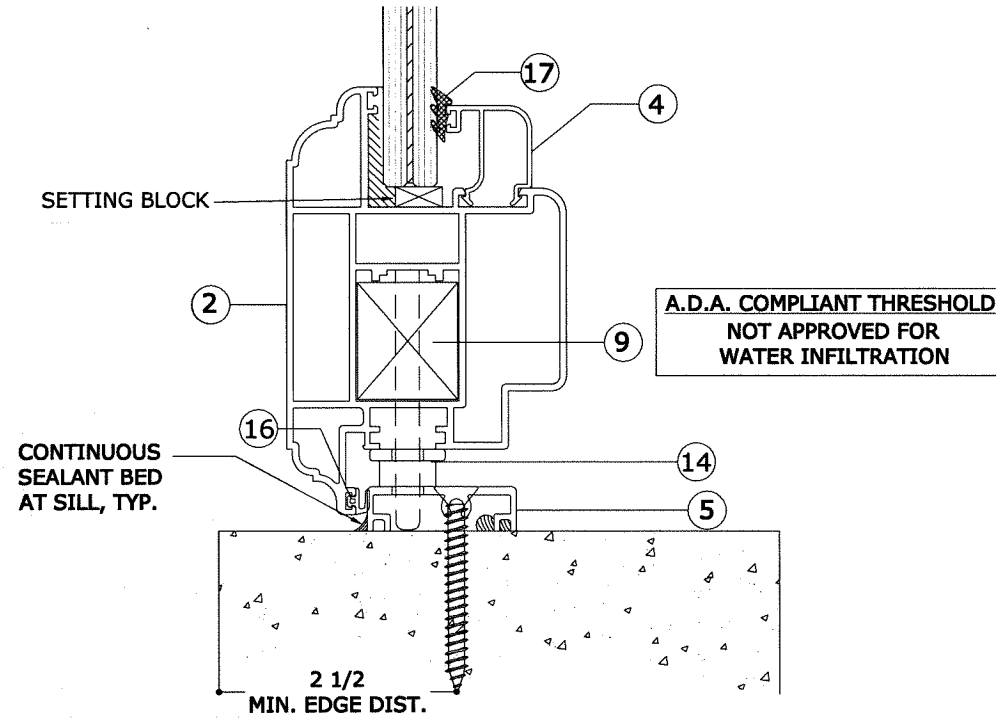
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15-2824
 SCALE: SEE DETAILS
 4 OF 15

ANCHORING SECTIONS

1 TYPICAL HEADER SECTION
5 6" = 1'-0" CONC. SUBSTRATE



2 TYPICAL SILL SECTION
5 6" = 1'-0" CONC. SUBSTRATE



3 SILL DETAIL (ADA THRESHOLD)
5 6" = 1'-0" CONC. SUBSTRATE

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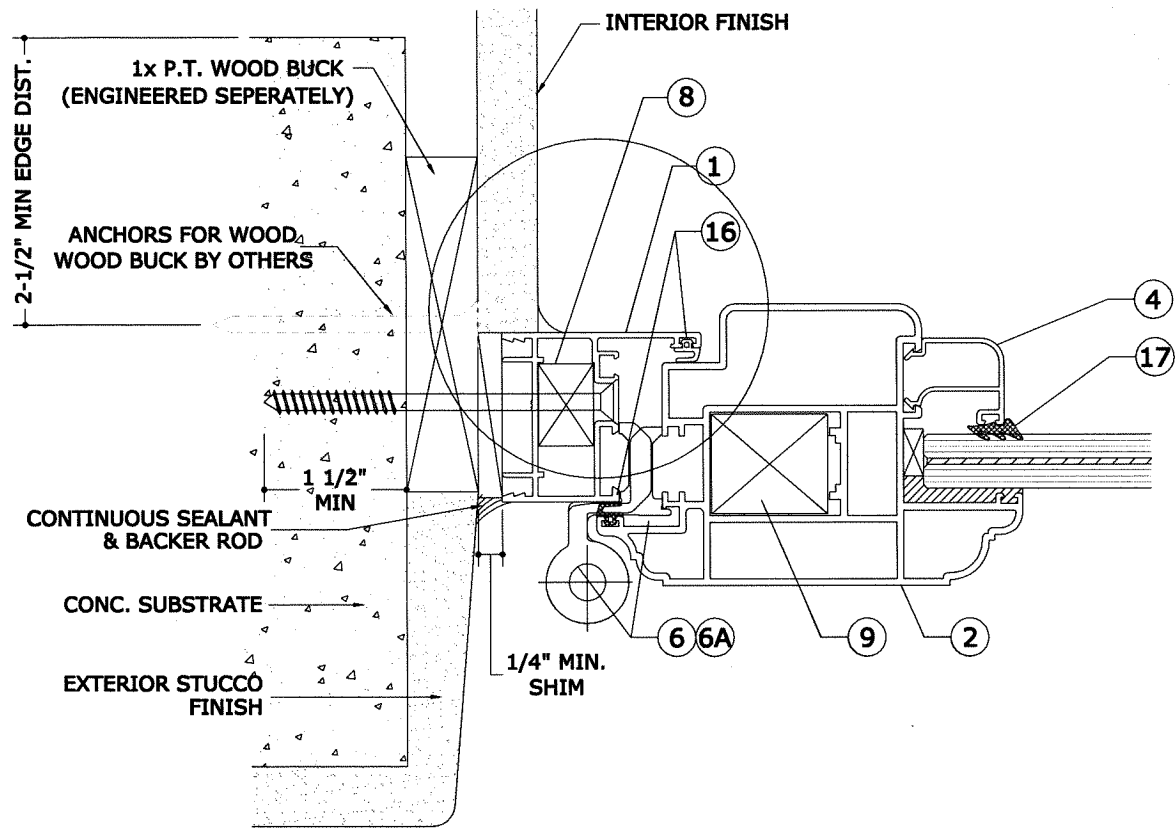
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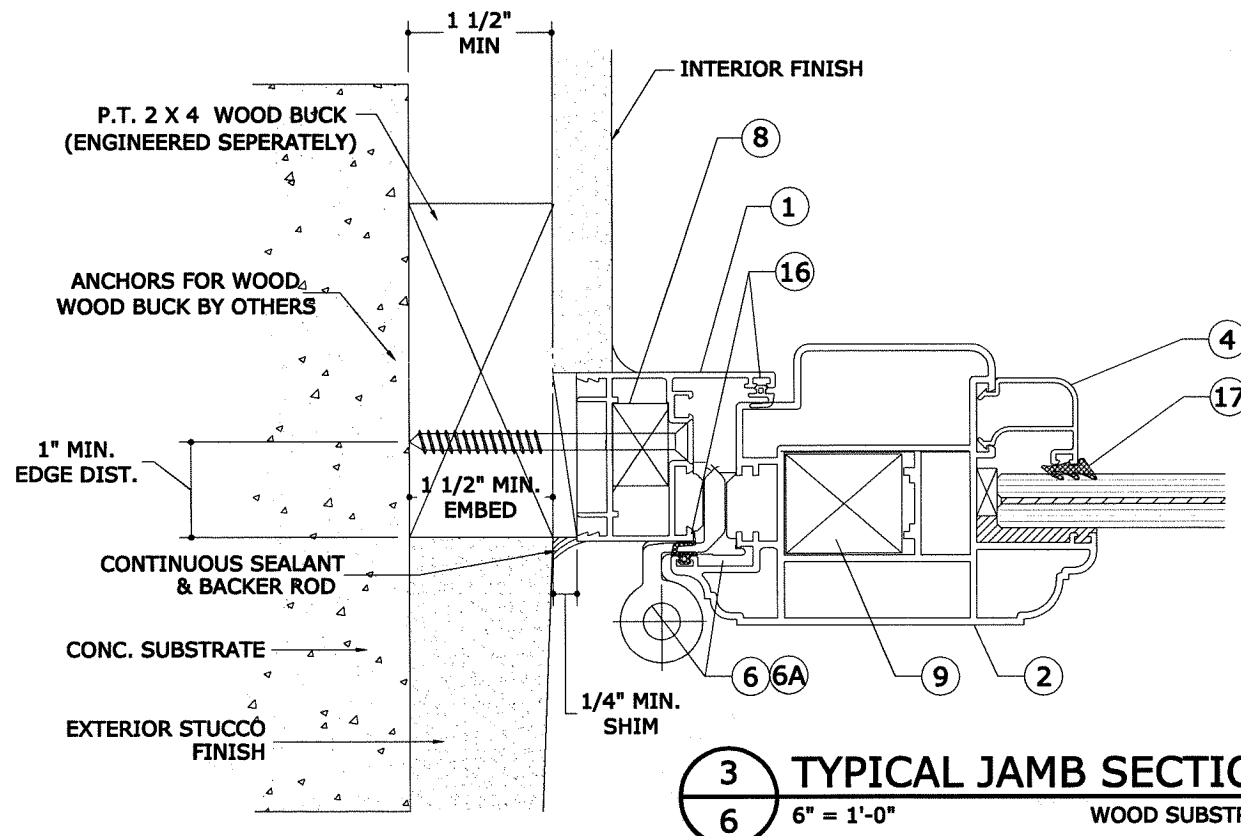
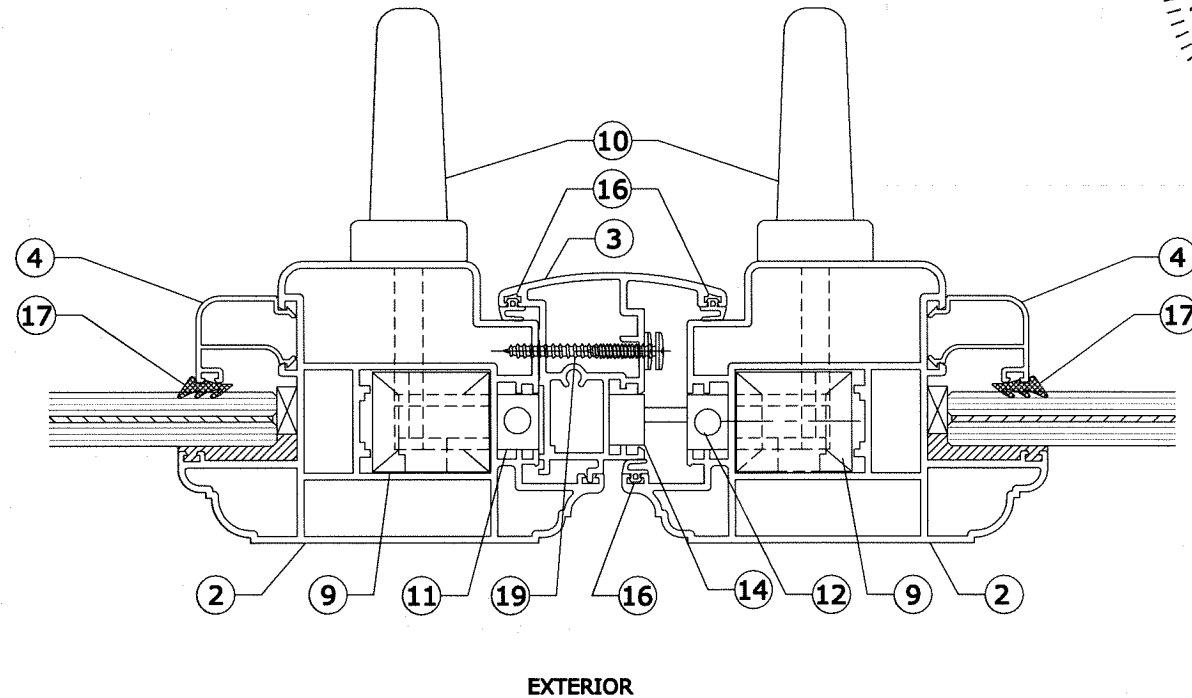
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ANCHORING SECTIONS

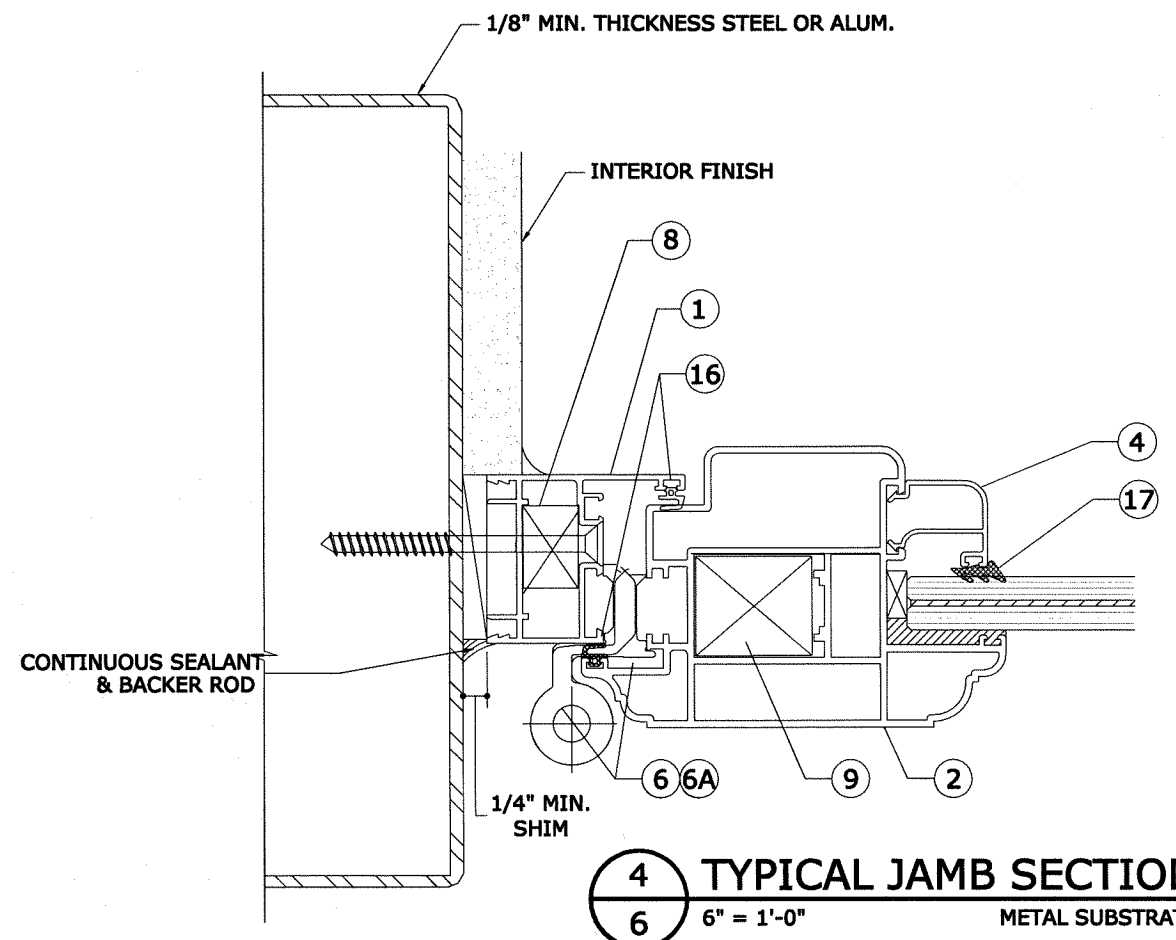
1 TYPICAL JAMB SECTION
6" = 1'-0" CONC. SUBSTRATE



2 TYPICAL ASTRAGAL SECTION
6" = 1'-0" CONC. SUBSTRATE



3 TYPICAL JAMB SECTION
6" = 1'-0" WOOD SUBSTRATE



4 TYPICAL JAMB SECTION
6" = 1'-0" METAL SUBSTRATE

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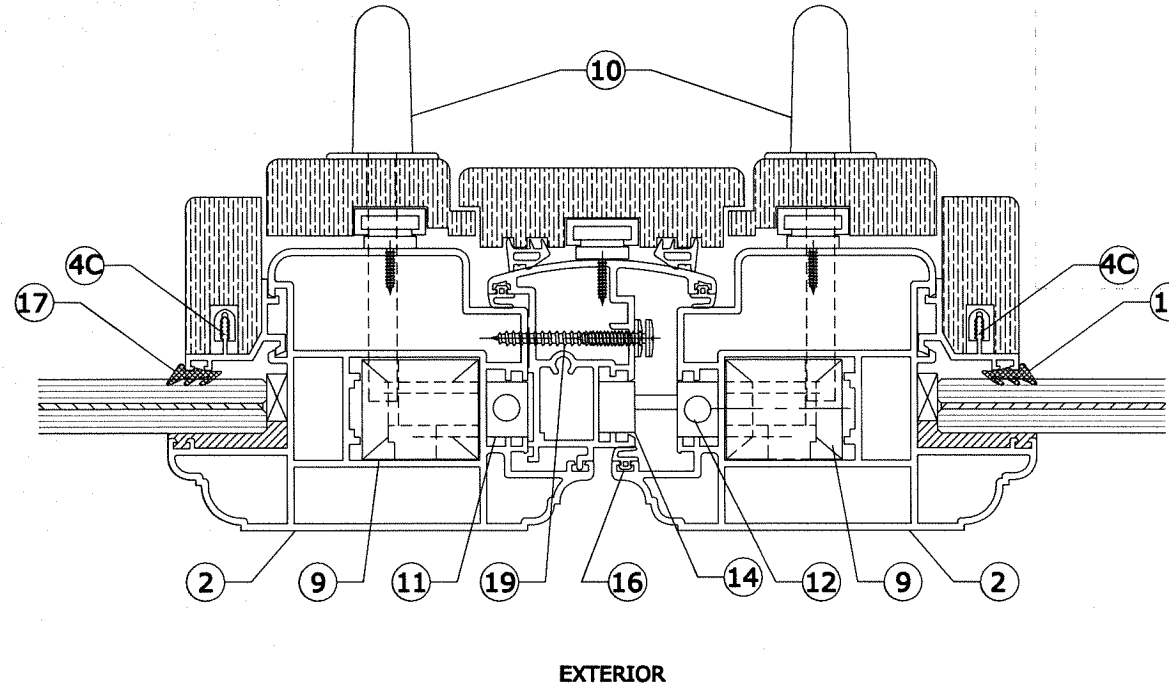
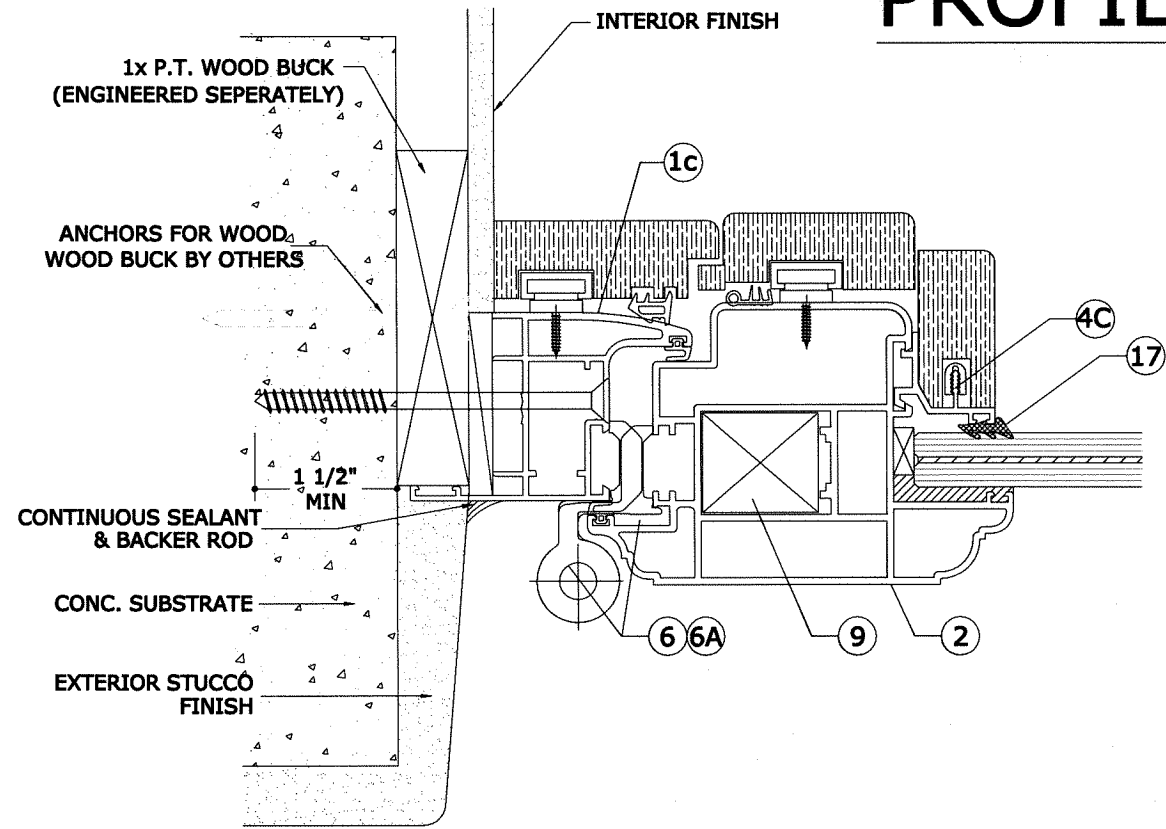
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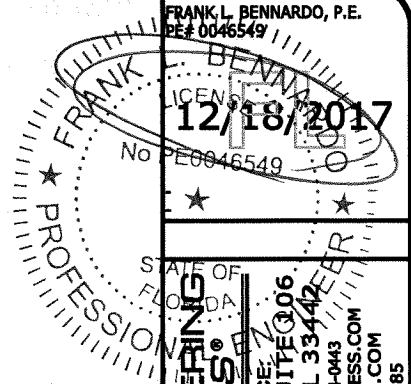
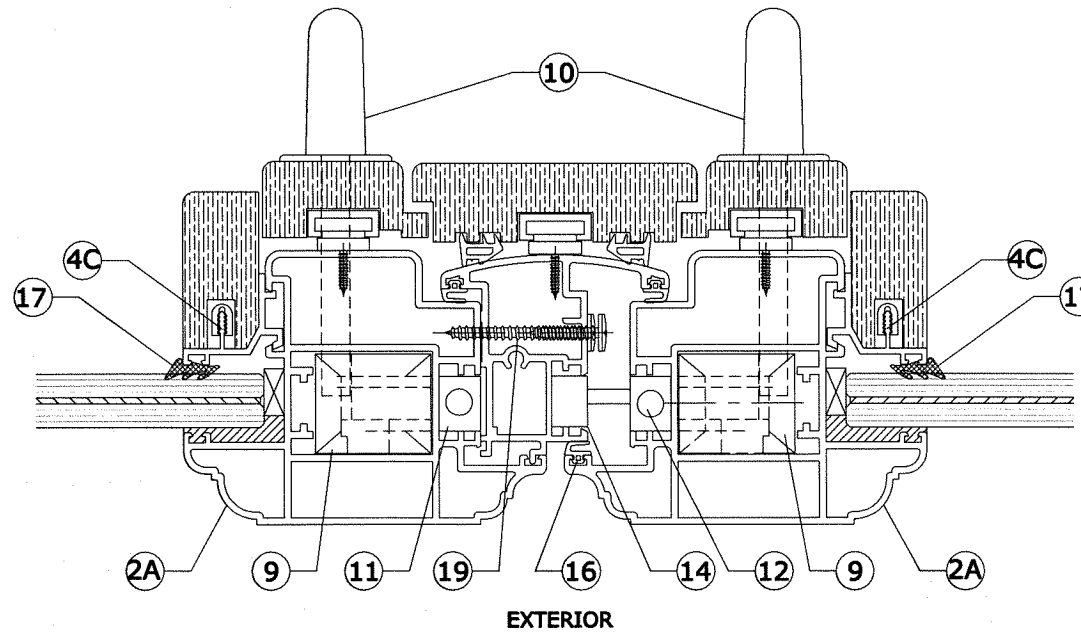
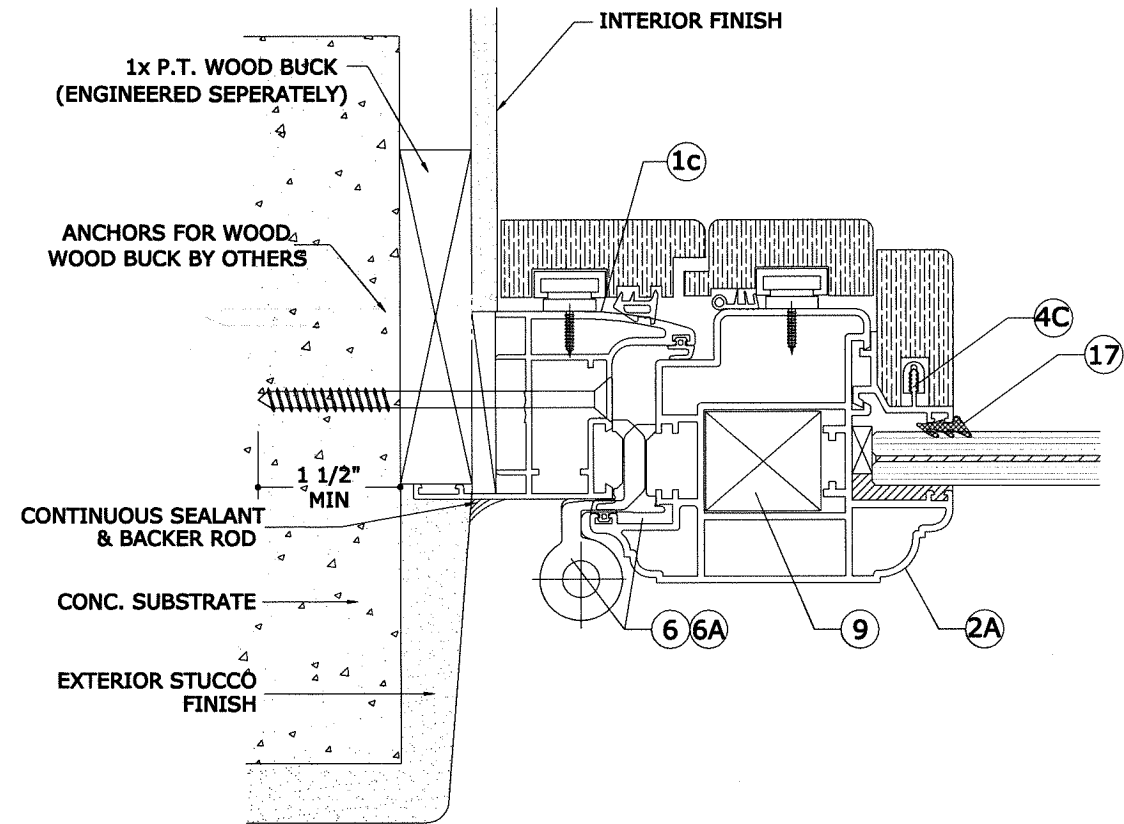
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12/18/2017 - 4:26pm zachr

12/18/2017 - 4:26pm zachr V:\projects\15-2824 EKU-53 OS French Door - Validated FL18429.1 for 2014 FBC\WP\2017 FBC Update\Drawings\15-242e La Finestra Series EKU 53 French Door.dwg

PROFILE COMBINATIONS



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FLORIDA APPROVAL FL #18429.1
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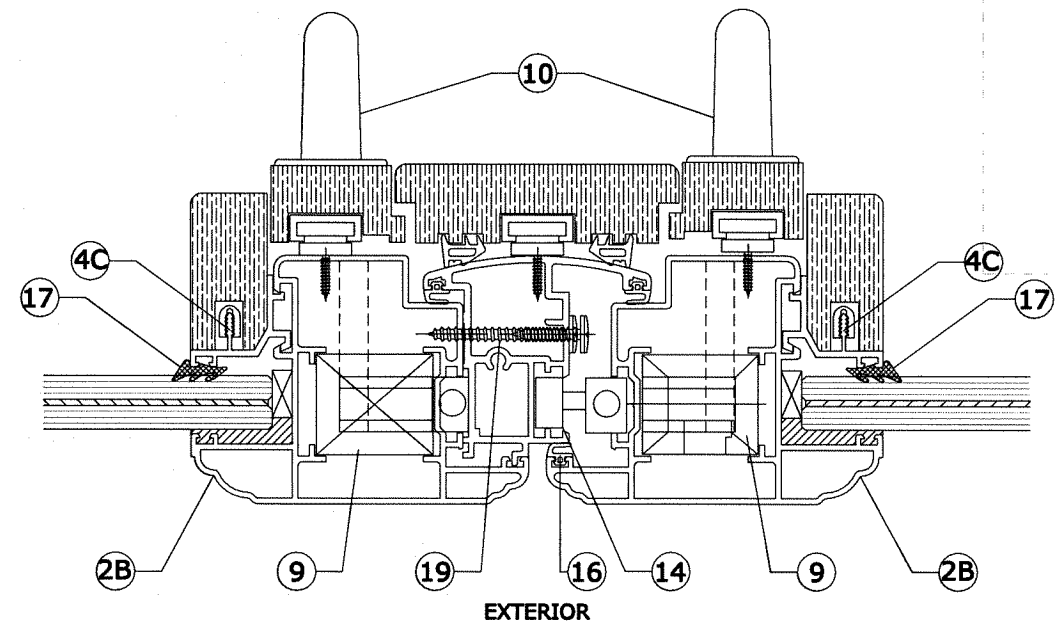
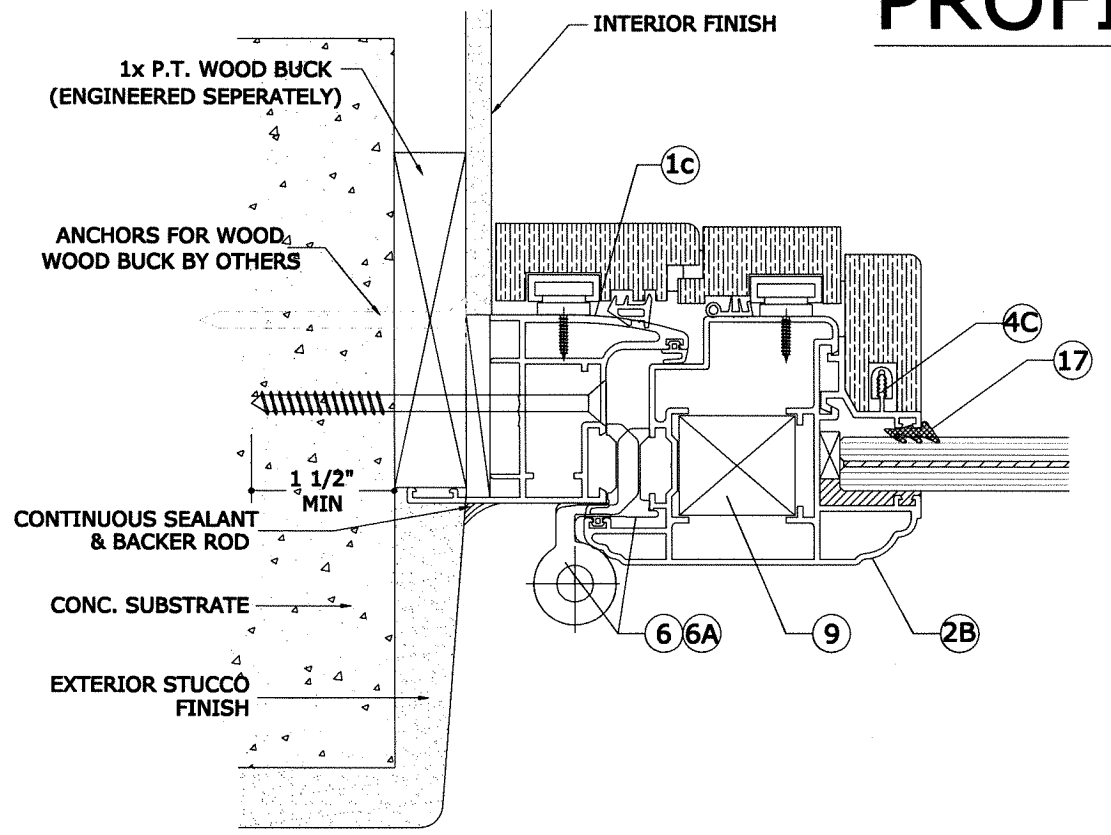
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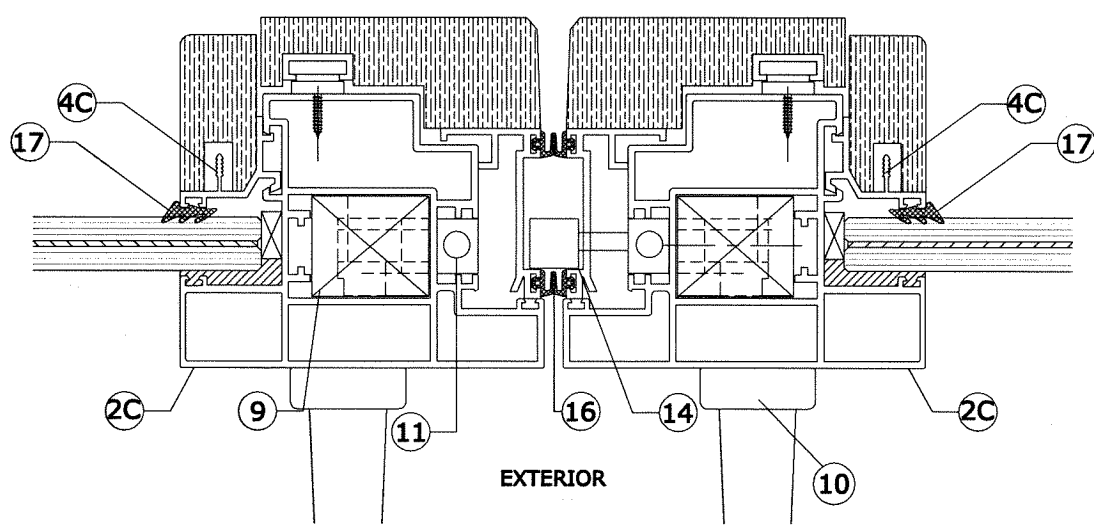
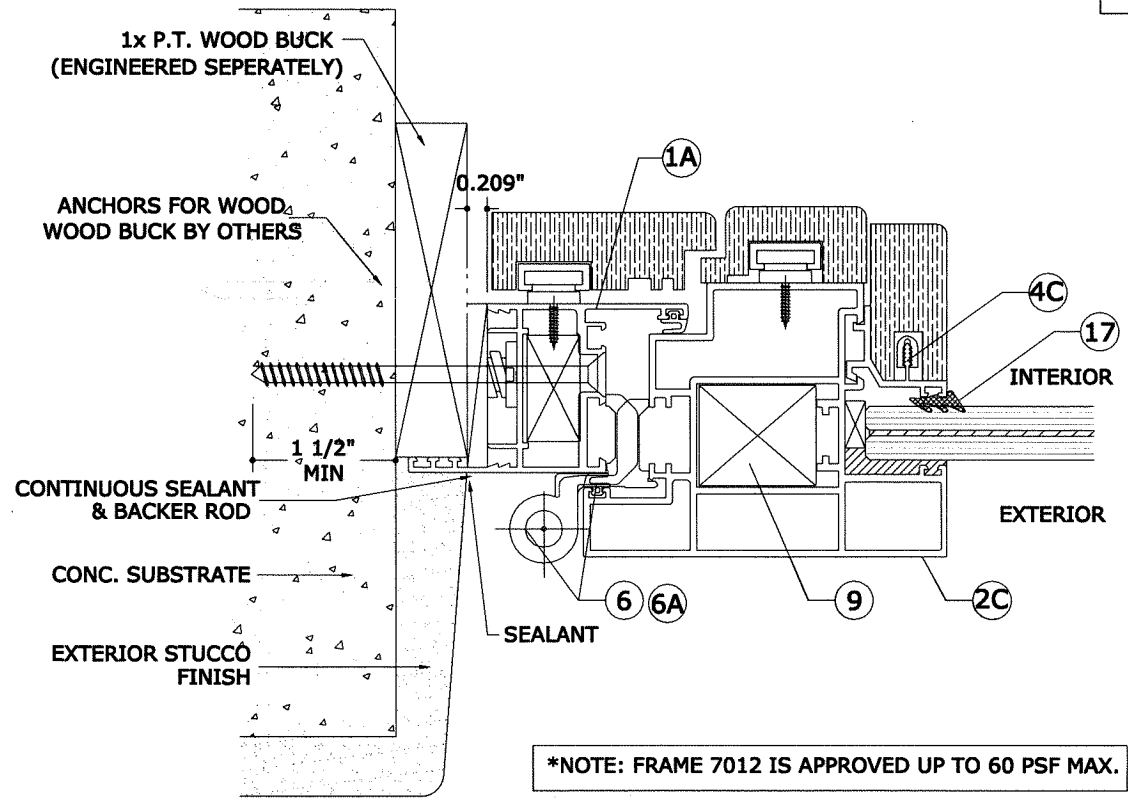
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PROFILE COMBINATIONS



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*NOTE: FRAME 7012 IS APPROVED UP TO 60 PSF MAX.

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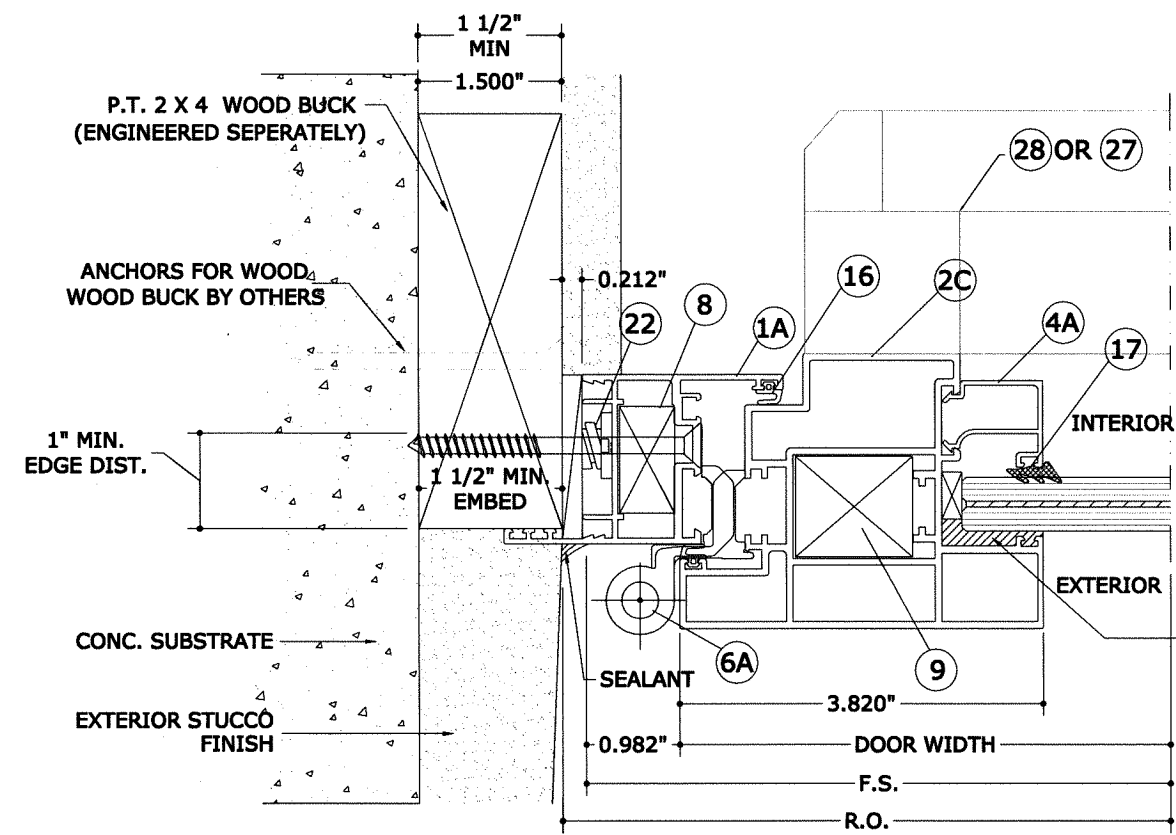
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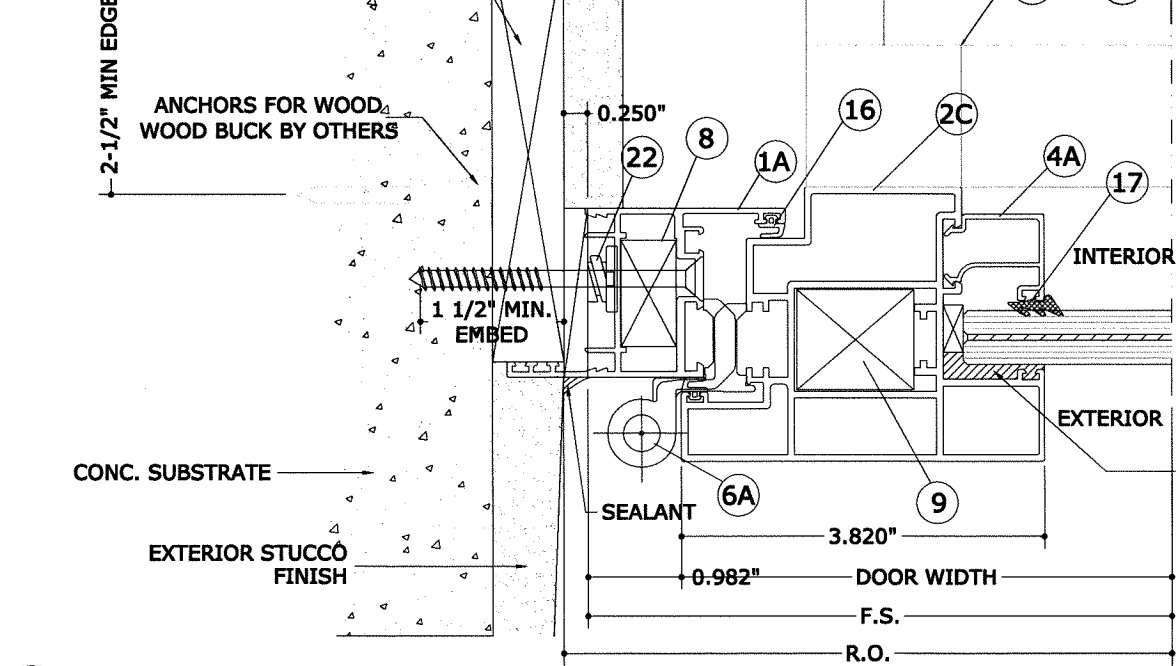
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ANCHORING SECTIONS

1 JAMB SECTION
9 6" = 1'-0" WOOD SUBSTRATE

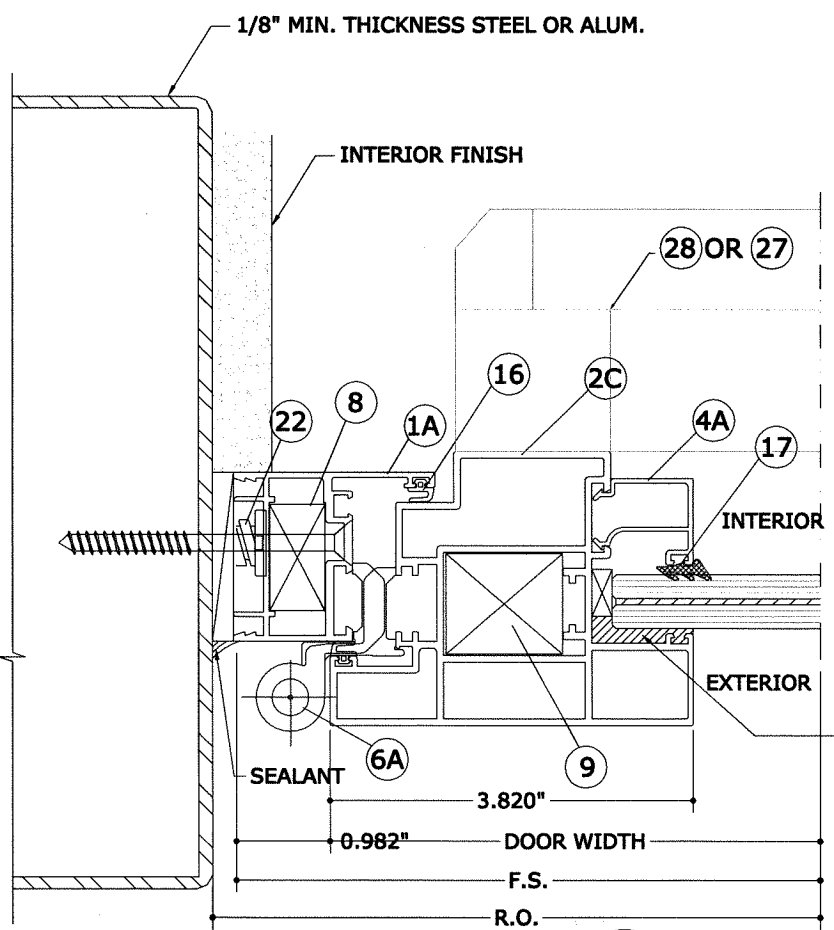
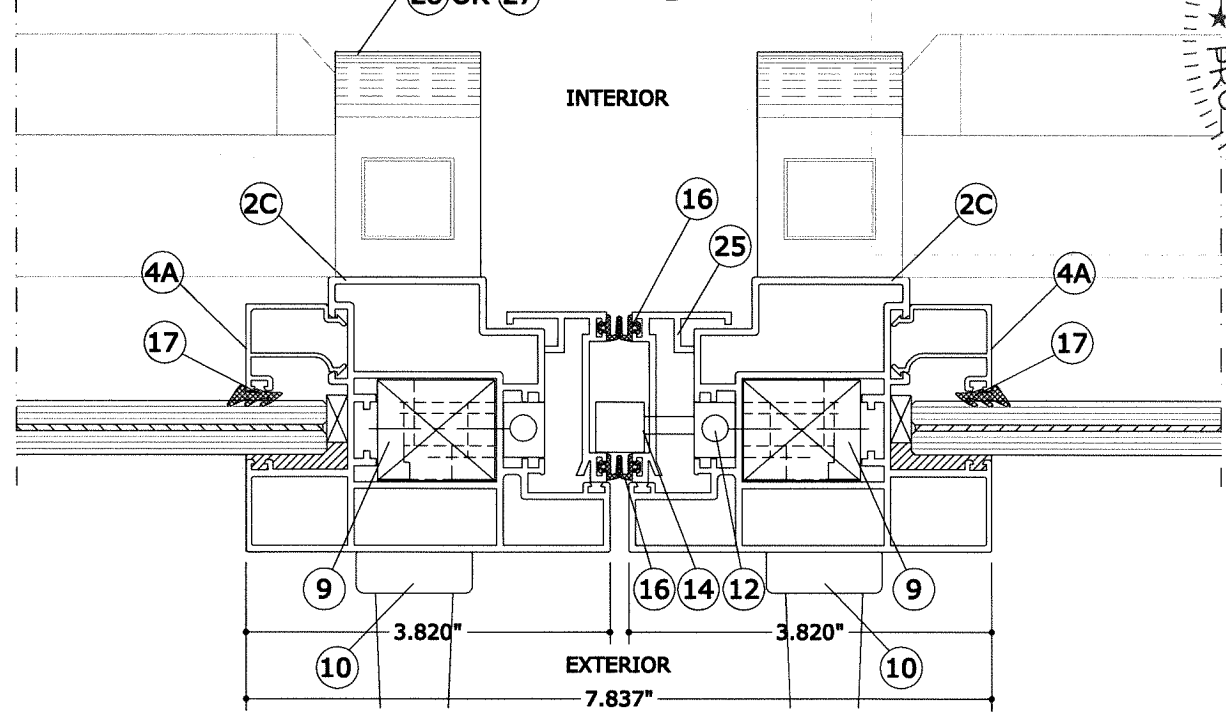


2 JAMB SECTION
9 6" = 1'-0" CONC. SUBSTRATE



2 JAMB SECTION
9 6" = 1'-0" METAL SUBSTRATE

3 MEETING STILES DETAIL
9 6" = 1'-0"



4 JAMB SECTION
9 6" = 1'-0" METAL SUBSTRATE

SEE DESIGN PRESSURE LIMITATION FOR GLAZING ON SHEET 12

DOW CORNING 995 OR 983 SEALANT OR PECORA 895

DOW CORNING 995 OR 983 SEALANT OR PECORA 895

DOW CORNING 995 OR 983 SEALANT OR PECORA 895

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FLORIDA APPROVAL FL #18429.1
FLORIDA BUILDING CODE SIXTH EDITION (2017)

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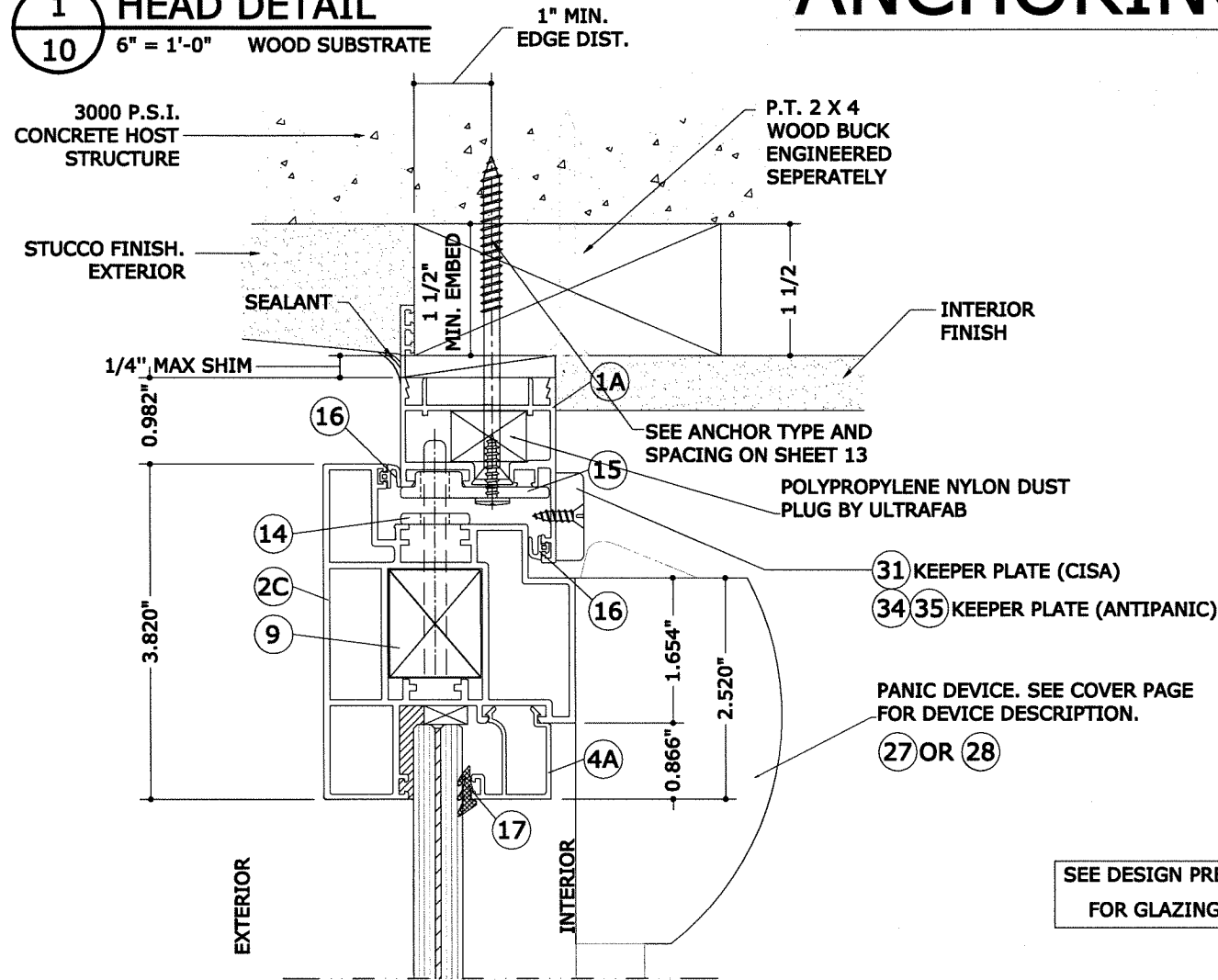
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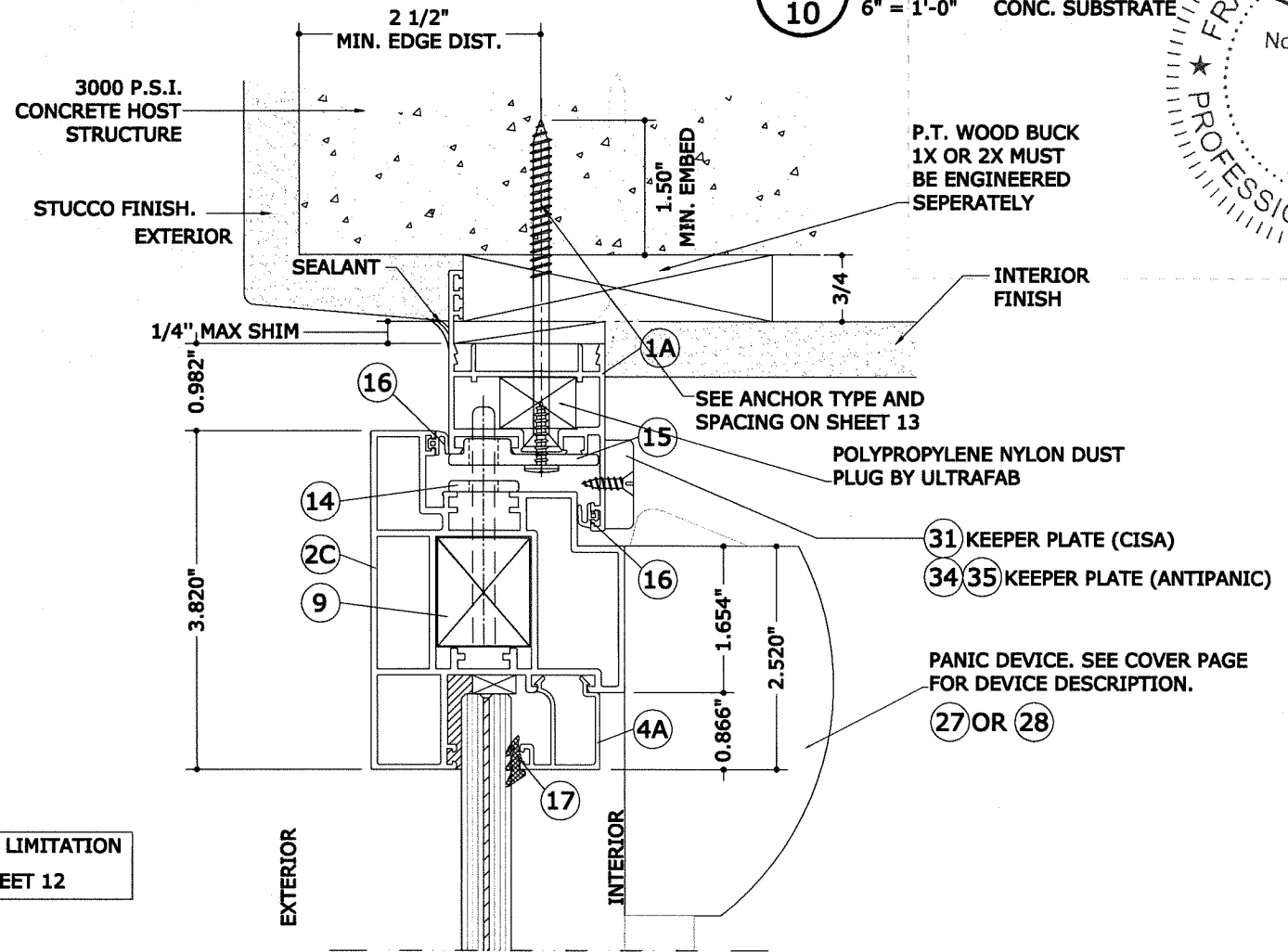
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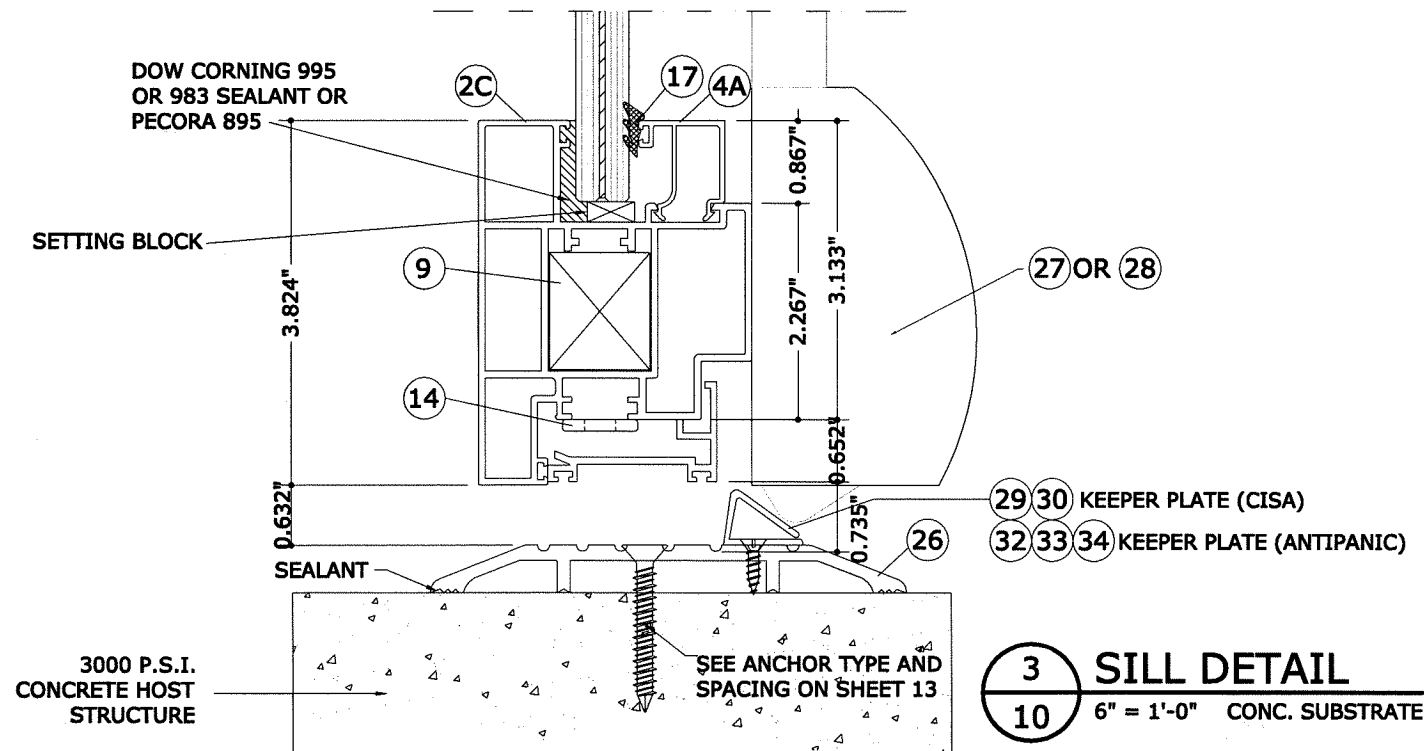
1 HEAD DETAIL
10 6" = 1'-0" WOOD SUBSTRATE



2 HEAD DETAIL
10 6" = 1'-0" CONC. SUBSTRATE



SEE DESIGN PRESSURE LIMITATION
 FOR GLAZING ON SHEET 12



3 SILL DETAIL
10 6" = 1'-0" CONC. SUBSTRATE

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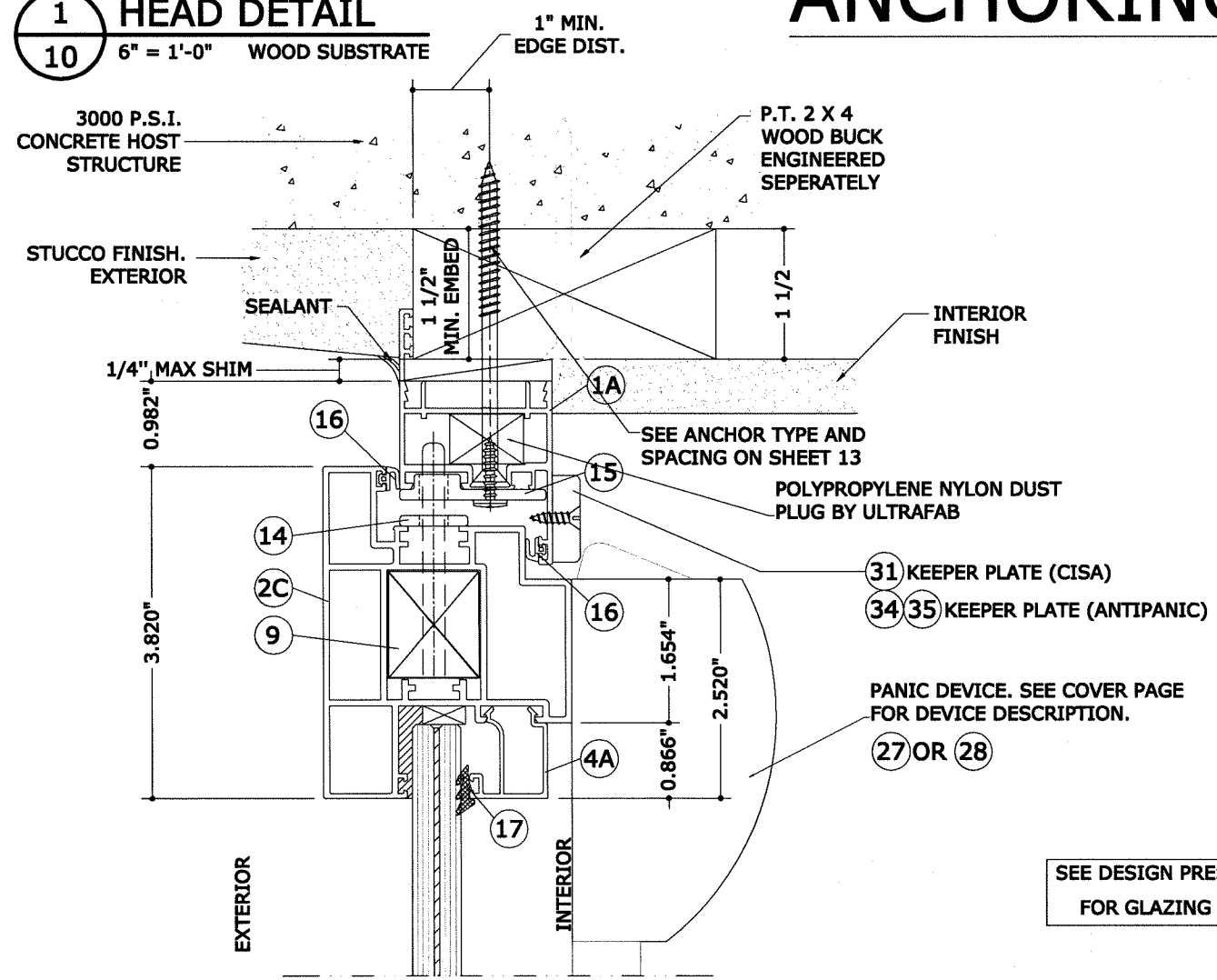
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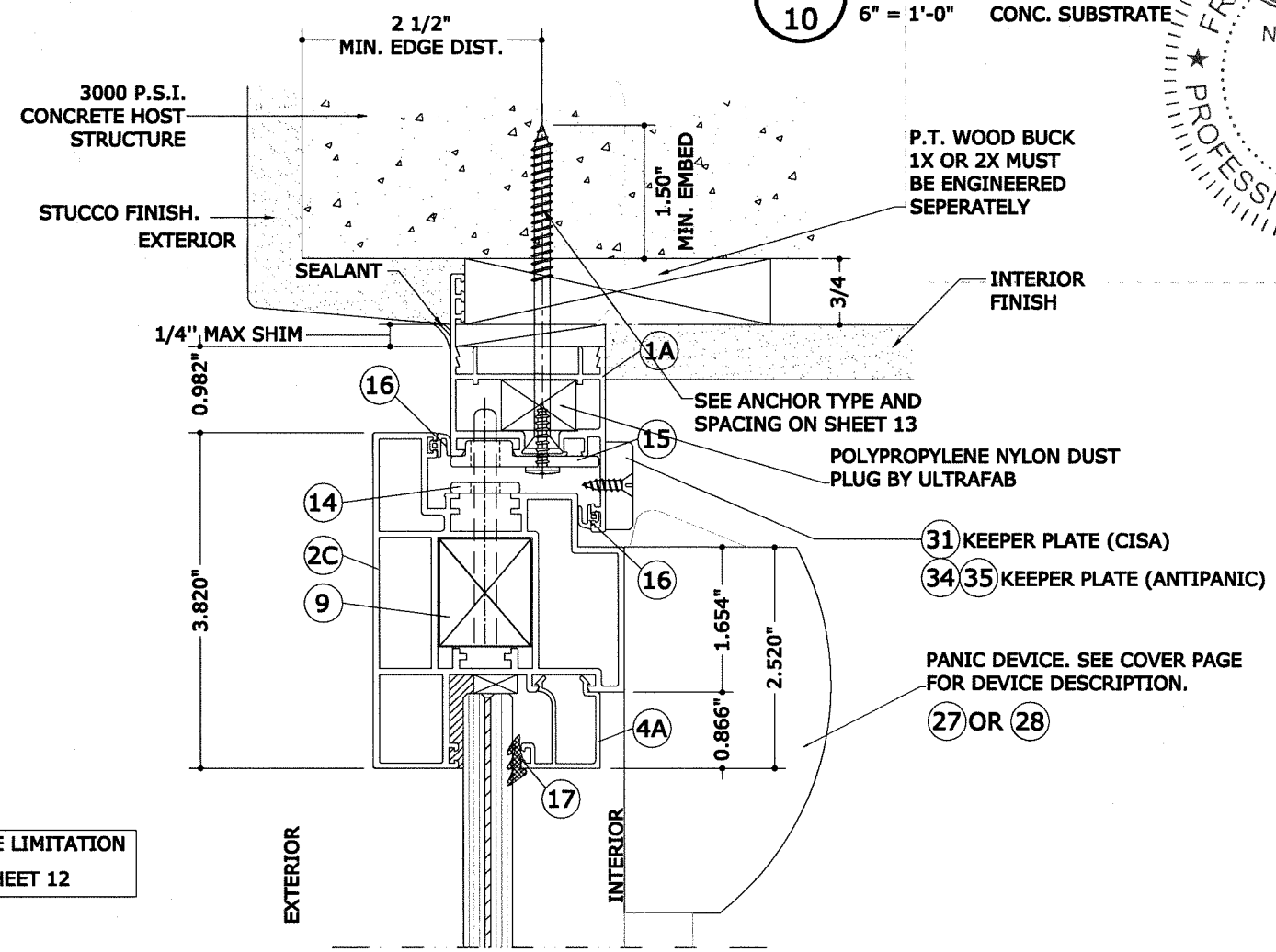
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ANCHORING SECTIONS

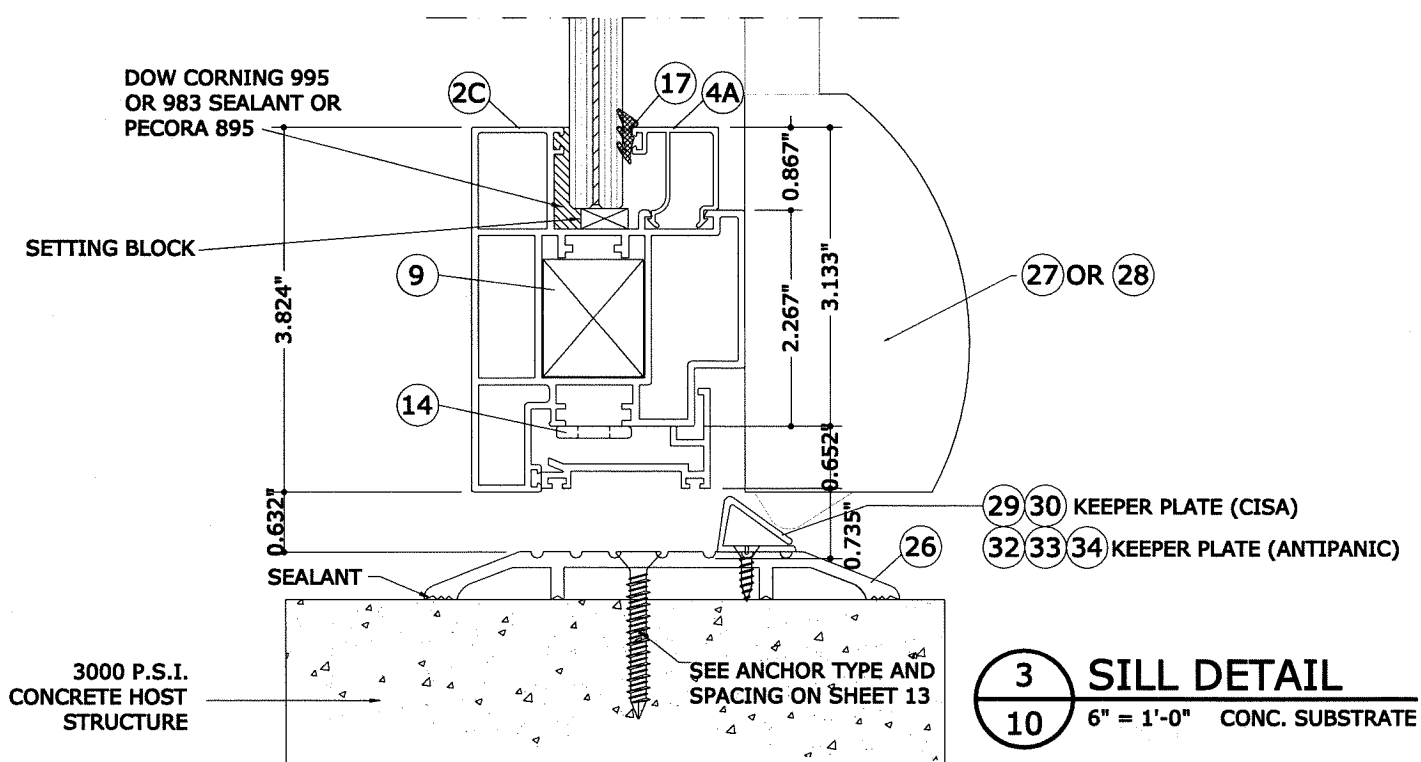
1 HEAD DETAIL
10 6" = 1'-0" WOOD SUBSTRATE



2 HEAD DETAIL
10 6" = 1'-0" CONC. SUBSTRATE



SEE DESIGN PRESSURE LIMITATION
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3 SILL DETAIL
10 6" = 1'-0" CONC. SUBSTRATE

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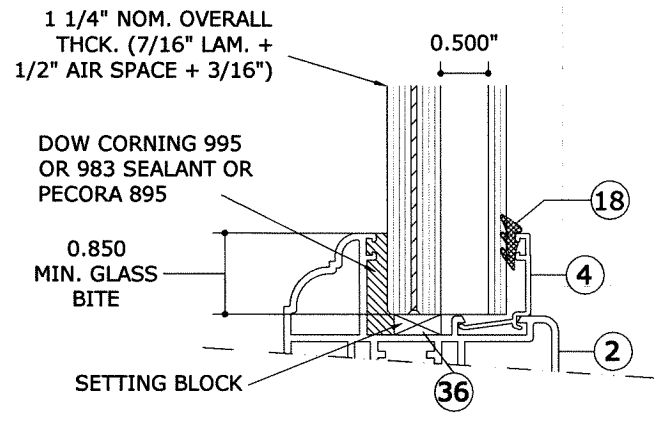
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DOOR GLASS SIZE CHART, MAXIMUM DESIGN LOAD CAPACITY (ASD METHOD)																	
D.L.O. HEIGHT	D.L.O. WIDTH	GLASS GL-1		GLASS GL-2		GLASS GL-3		GLASS GL-4		GLASS GL-5		GLASS GL-6		GLASS GL-7		GLASS GL-8	
		(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.	(+) P.S.F.	(-) P.S.F.
70 3/4"	21 3/4"	110	110	80	80	110	110	110	110	110	110	80	80	80	80	80	80
	25 3/4"	110	110	80	80	110	110	110	110	110	110	80	80	80	80	80	80
	27 1/2"	110	110	80	80	110	110	90	90			110	110	80	80	80	80
	28 15/16"	110	110	80	80			90	90			110	110	80	80	80	80
	30"	110	110	80	80			90	90			110	110	80	80	80	80
	30 3/4"							90	90			110	110	80	80	80	80
42 3/8"							90	90					80	80	80	80	
65 3/4"													80	80	80	80	
80"	21 3/4"	110	110	80	80	110	110	110	110	110	110						
	25 3/4"	110	110	80	80	110	110	110	110	110	110						
	27 1/2"	110	110	80	80	110	110	90	90								
	28 15/16"	110	110	80	80			90	90								
	30"	110	110	80	80			90	90								
	42 3/8"							90	90								
85"	21 3/4"	110	110	80	80	110	110	110	110	110	110						
	25 3/4"	110	110	80	80	110	110	110	110	110	110						
	27 1/2"	110	110	80	80	110	110	90	90								
	28 15/16"	110	110	80	80	98.9	98.9	90	90								
	30"	110	110	80	80	98.9	98.9	90	90								
	30 3/4"	110	110			98.9	98.9	90	90								
42 3/8"					98.9	98.9	90	90									
87"	21 3/4"	110	110	80	80			90	90								
	27 1/2"	110	110	80	80			90	90								
	28 15/16"	110	110	80	80			90	90								
	30 3/4"	110	110	80	80			90	90								
42 3/8"							90	90									
90"	21 3/4"	80	80	80	80												
	27 1/2"	80	80	80	80												
	28 15/16"	80	80	80	80												
96"	21 3/4"	80	80	80	80												
	27 1/2"	80	80	80	80												
	28 15/16"	80	80	80	80												
104"	21 3/4"	80	80	80	80												
	27 1/2"	80	80	80	80												
	28 15/16"	80	80	80	80												
108"	21 3/4"	80	80	80	80												
	27 1/2"	80	80	80	80												
	28 15/16"	80	80	80	80												
110 1/2"	21 3/4"	80	80	80	80												
	27 1/2"	80	80	80	80												
	28 15/16"	80	80	80	80												

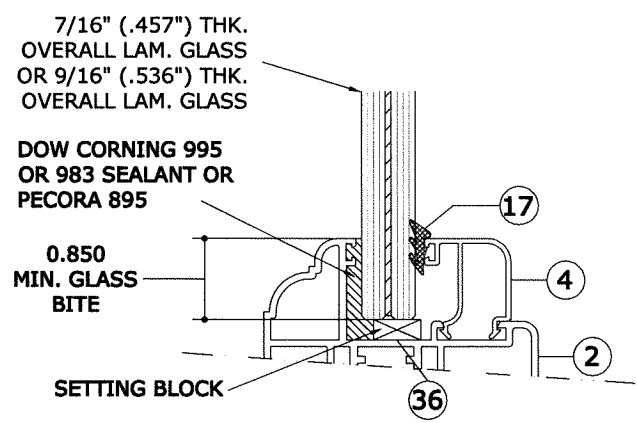
GLASS SCHEDULE

GL-1	7/16" (.458") LAMINATED 3/16" (.182") H.S. - .090" P.V.B. TROSIFOL BY KURARAY AMERICA INC - 3/16" H.S.	GL-5	7/16" (.454") LAMINATED 3/16" (.182") ANN. - .090" P.V.B. TROSIFOL BY KURARAY AMERICA INC - 3/16" H.S.
GL-2	1-1/4" (1.136") INSULATED/LAMINATED 3/16" (.182") H.S. - .090" P.V.B. TROSIFOL BY KURARAY AMERICA INC - 3/16" H.S. - 1/2" AIR SPACE - 3/16" TEMPERED	GL-6	9/16" (.536") LAMINATED 1/4" (.223") H.S. - .090" P.V.B. TROSIFOL BY KURARAY AMERICA INC - 1/4" H.S.
GL-3	7/16" (.458") LAMINATED 3/16" (.182") ANN. - .090" P.V.B. SAFLEX BY EASTMAN CHEMICAL COMPANY INTERLAYER - 3/16" ANN.	GL-7	9/16" (.536") LAMINATED 1/4" (.223") H.S. - .090" SENTRYGLAS BY KURARAY AMERICA INC - 1/4" H.S.
GL-4	7/16" (.454") LAMINATED 3/16" (.182") H.S. - .090" P.V.B. SAFLEX BY EASTMAN CHEMICAL COMPANY INTERLAYER - 3/16" H.S.	GL-8	7/16" (.454") LAMINATED 3/16" (.182") H.S. - .090" SENTRYGLAS BY KURARAY AMERICA INC - 3/16" H.S.

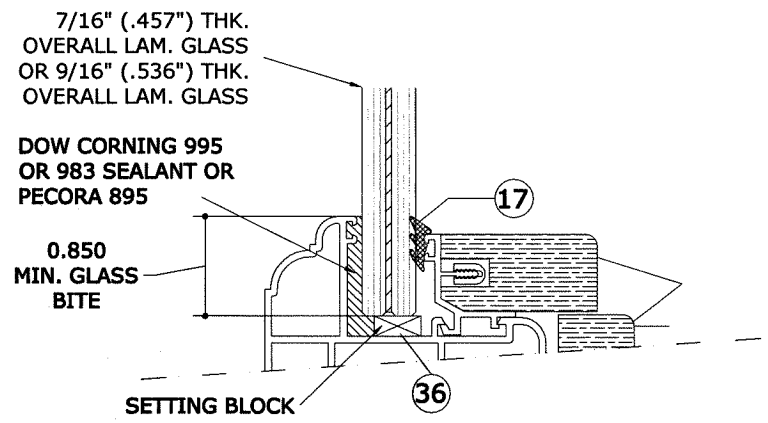
GLASS TYPES



1 GLAZING DETAIL (INSULATED)
12 6" = 1'-0" VERT SECT



2 GLAZING DETAIL (LAMINATED)
12 6" = 1'-0" VERT SECT



3 GLAZING DETAIL (WITH WOOD TRIM)
12 6" = 1'-0" VERT SECT

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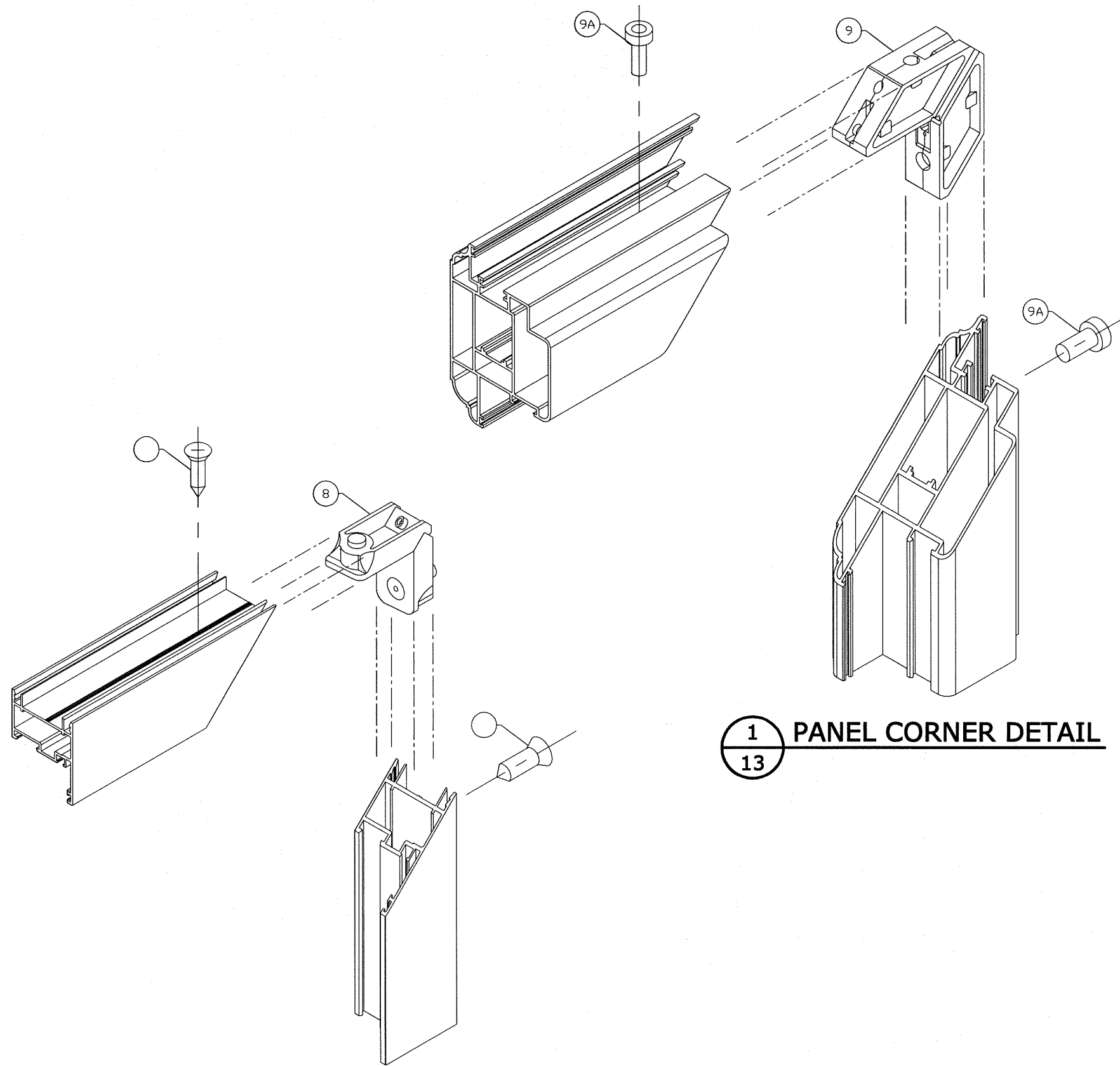
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FRAME ASSEMBLY



1 PANEL CORNER DETAIL

2 FRAME CORNER DETAIL

ANCHOR CAPACITY CHARTS

ANCHOR CAPACITY CHART (CONCRETE SUBSTRATE)

1/4" DIA. TAPCON
EDGE DIST. 2 1/2" MIN.
SPACING 4" MIN.
EMBED 1 3/4" MIN. INTO GROUT FILLED MASONRY
OR
EMBED 1 1/2" MIN. INTO 3000 PSI CONC.
START 7" FROM ENDS, BALANCE PER CHART.

MAXIMUM ALLOWABLE DESIGN PRESSURE	ANCHORS AT JAMBS	QTY. ANCHORS AT INTERLOCK	
		(W/ ADJUSTABLE SHIM)	
		UP TO 96"	UP TO 120"
≤ 60 P.S.F.	15-1/2" C/C	2	3
≤ 70 P.S.F.	15-1/2" C/C	2	3
≤ 80 P.S.F.	15-1/2" C/C	3	3
≤ 90 P.S.F.	15-1/2" C/C	3	N/A
>90-110 P.S.F.	15-1/2" C/C	3	N/A

SPACED 2 1/2" APART

ANCHOR CAPACITY CHART (STEEL SUBSTRATE)

#14 P.H.S.M.S. OR #14 SELF DRILLING
INTO 1/8" THK. ASTM A36
START 7" FROM ENDS, BALANCE PER CHART.

MAXIMUM ALLOWABLE DESIGN PRESSURE	ANCHORS AT JAMBS	QTY. ANCHORS AT INTERLOCK	
		(W/ ADJUSTABLE SHIM)	
		UP TO 96"	UP TO 120"
≤ 60 P.S.F.	15-1/2" C/C	2	3
≤ 70 P.S.F.	15-1/2" C/C	2	3
≤ 80 P.S.F.	15-1/2" C/C	3	3
≤ 90 P.S.F.	15-1/2" C/C	3	N/A
>90-110 P.S.F.	15-1/2" C/C	3	N/A

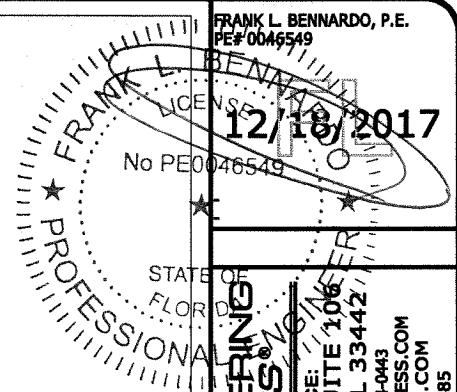
SPACED 2 1/2" APART

ANCHOR CAPACITY CHART (WOOD SUBSTRATE)

#14 P.H.S.M.S. OR #14 WOOD SCREW
THREAD PENETRATION 1 1/2" MIN. INTO NO. 2 SYP.
START 7" FROM ENDS, BALANCE PER CHART.

MAXIMUM ALLOWABLE DESIGN PRESSURE	ANCHORS AT JAMBS	QTY. ANCHORS AT INTERLOCK	
		(W/ ADJUSTABLE SHIM)	
		UP TO 96"	UP TO 120"
≤ 60 P.S.F.	12" C/C	4	5
≤ 70 P.S.F.	12" C/C	4	5
≤ 80 P.S.F.	12" C/C	5	6
≤ 90 P.S.F.	12" C/C	5	N/A
>90-110 P.S.F.	12" C/C	6	N/A

SPACED 2 1/2" APART



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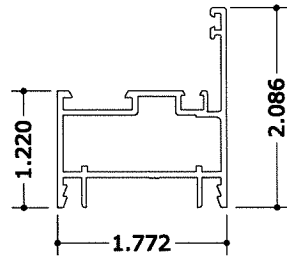
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13 OF 15

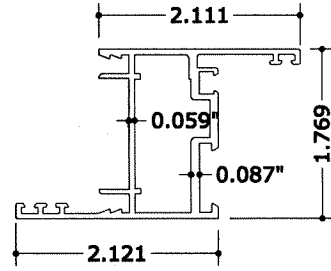
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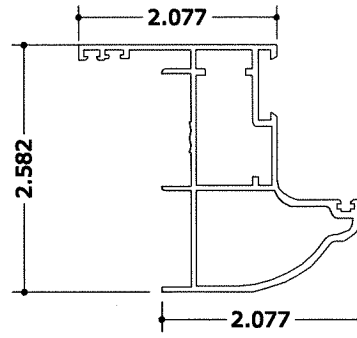
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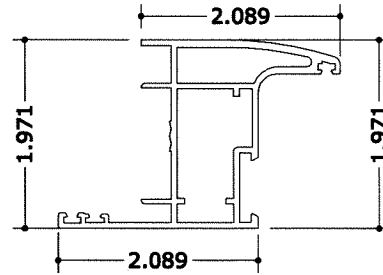
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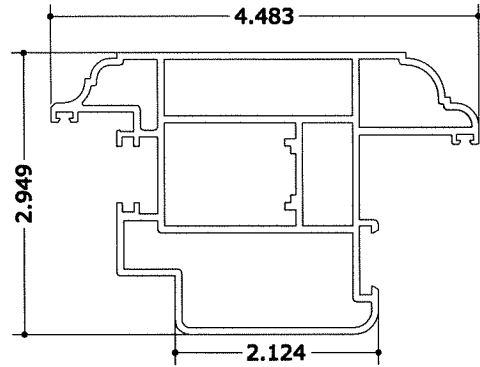
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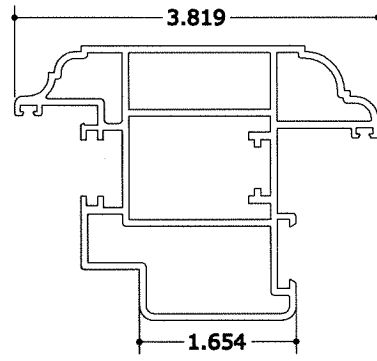
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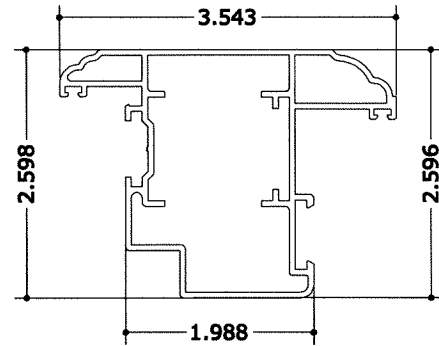
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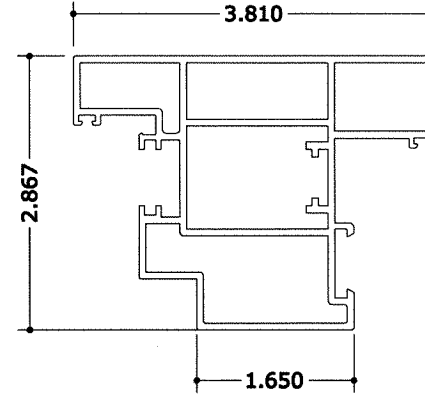
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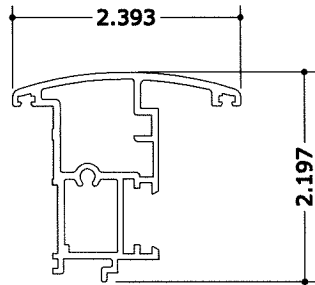
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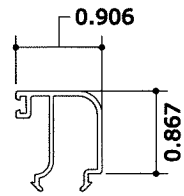
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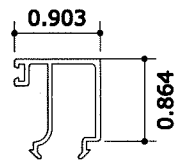
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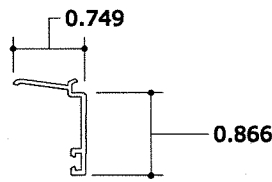
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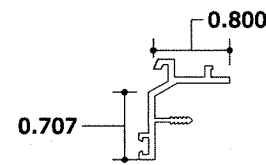
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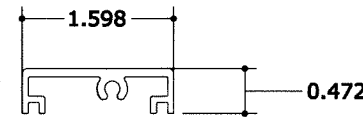
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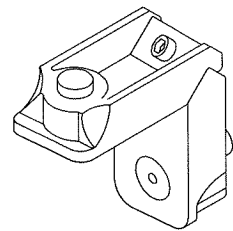
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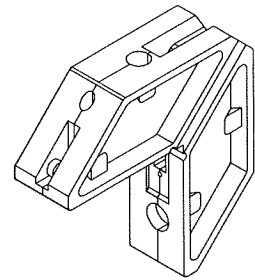
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8



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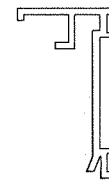
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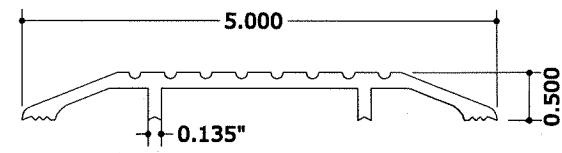
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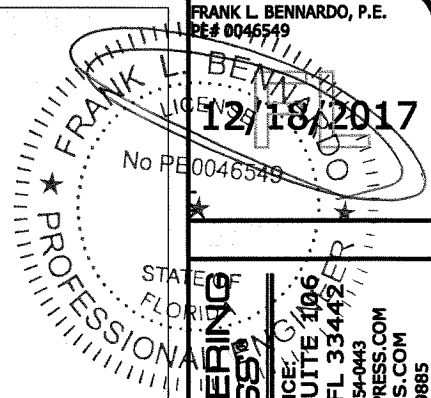


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NOTE: ALL ALUMINUM EXTRUSIONS TO BE 6063-T5 U.N.O.



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 FLORIDA APPROVAL FL # 18429.1
 FLORIDA BUILDING CODE SIXTH EDITION (2017)

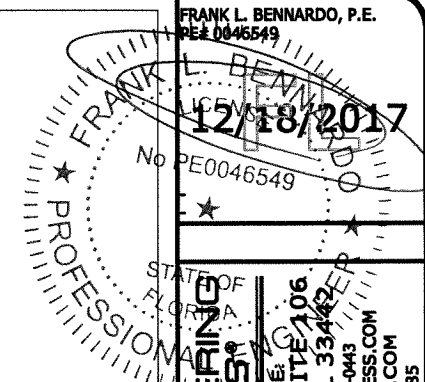
REMARKS	DRWN	CHKD	DATE
INIT ISSUE	LAO	FLB	11/27/17

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PARTS LIST

	PART #	DESCRIPTION	MATERIAL	REMARKS
1	7011	FRAME HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
1A	7012	FRAME HEAD/SILL/JAMB (with flange)	6063-T5	GRUPPO PROFILATI SPA
1B	17948	FRAME HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
1C	17949	FRAME HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
2	16012	PANEL HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
2A	16013	PANEL HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
2B	Z18853	PANEL HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
2C	27918	PANEL HEAD/SILL/JAMB	6063-T5	GRUPPO PROFILATI SPA
3	27918	ASTRAGAL	6063-T5	GRUPPO PROFILATI SPA
4	4195	GLASS BEAD	6063-T5	GRUPPO PROFILATI SPA
4A	4298	GLASS BEAD	6063-T5	GRUPPO PROFILATI SPA
4B	4293	GLASS BEAD	6063-T5	GRUPPO PROFILATI SPA
4C	092109	GLASS BEAD	6063-T5	GRUPPO PROFILATI SPA
5	6009	COMMERCIAL THRESHOLD	6063-T5	GRUPPO PROFILATI SPA
6	A8221	4" BUTTHINGES	6063-T5	MASTER
6A	160/12	4" BUTTHINGES	6063-T5	CASALI
7	N/A	1/4" x 1/2" x 3" LG. SETTING BLOCK	SILICONE	GENERIC
8	0409	FRAME CORNER KEY	ALUMINUM	MONTICELLI
9	5004	PANEL CORNER KEY	ALUMINUM	MONTICELLI
9A	001	PANEL CORNER KEY	ALUMINUM	GRUPPO PROFILATI SPA
9B	002	PANEL CORNER KEY	ALUMINUM	GRUPPO PROFILATI SPA
10	SERIES 800	OPERATING HANDLE	ALUMINUM	PASINI
11	1025	TRANSMISSION MOVEMENT DEVICE	ZAMA/S.S.	GSG
12	1286	5-POINT LOCKING SYSTEM	S.S.	AMESBURY
13	FB-1300-20-SS	FLUSH BOLT	S.S.	SULLIVAN
14	4031	MUSHROOM HEAD AND KEEPERS	S.S./ALUMINUM	GSG/LAFIN
15	CD-MPK-100-SS	MULTIPOINT KEEPER KIT	S.S./ALUMINUM	SULLIVAN
16	2666	WEATHERSTRIP GASKET	EPDM	GRUPPO PROFILATI SPA
17	002/009	WEDGE GASKET	EPDM	GRUPPO PROFILATI SPA
18	-	# 10 x 2 1/2" FH.SMS. (ASSEMBLY)	PLATED STEEL	-
19	-	# 10 x 2" FH.SMS. (ASSEMBLY)	PLATED STEEL	-
20	-	# 14 x 3/4" FH.SMS. (PANEL ASSEMBLY)	PLATED STEEL	-
21	895/995	STRUCTURAL SILICONE	SILICONE	PECORA OR DOW CORNING
22	CD.100.BK	FRAME INSERT	ALLUM/NYLON	SULLIVAN
23	SDG.SP.316	STRIKE PLATE	S.S.	SULLIVAN
24	2167/2168	FLUSH BOLT	ZAMA	GSG
25	7019	BYPASS SASH ATTACHMENT	6063-T5	GRUPPO PROFILATI SPA
26	HCL - 5000	ADA SILL	6063-T6	GRUPPO PROFILATI SPA
27	402 / T	PANIC DEVICE COMPOSITION		BRAND: ANTIPANIC
28	59801 / 59811 / 59816	PANIC DEVICE COMPOSITION		BRAND: CISA
29	1.07072.27.0	KEEPER PLATE		BRAND: CISA
30	1.07072.21.0	KEEPER PLATE		BRAND: CISA
31	1.07072.20.0	KEEPER PLATE		BRAND: CISA
32	490/1 FIRE	KEEPER PLATE		BRAND: ANTIPANIC
33	490/2 FIRE	KEEPER PLATE		BRAND: ANTIPANIC
34	490/4	KEEPER PLATE		BRAND: ANTIPANIC
35	490/5	KEEPER PLATE		BRAND: ANTIPANIC
36	-	SETTING BLOCK	NEOPRENE 70~90	SHORE A DUROMETER HARDNESS AT QUARTER POINTS



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