

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF DOORS NOT TO EXCEED
MAX. TESTED AREA OF 160 SQ. FT.

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.937"
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.375"

SERIES-6100 ALUMINUM SLIDING GLASS DOOR

SEE SHEETS 3 THRU 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE GLASS TYPE AND REINFORCING OPTION.
USING CHART ON SHEETS 5 & 5.1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CAPACITY (REINFORCING OPTION/GLASS TYPE) OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

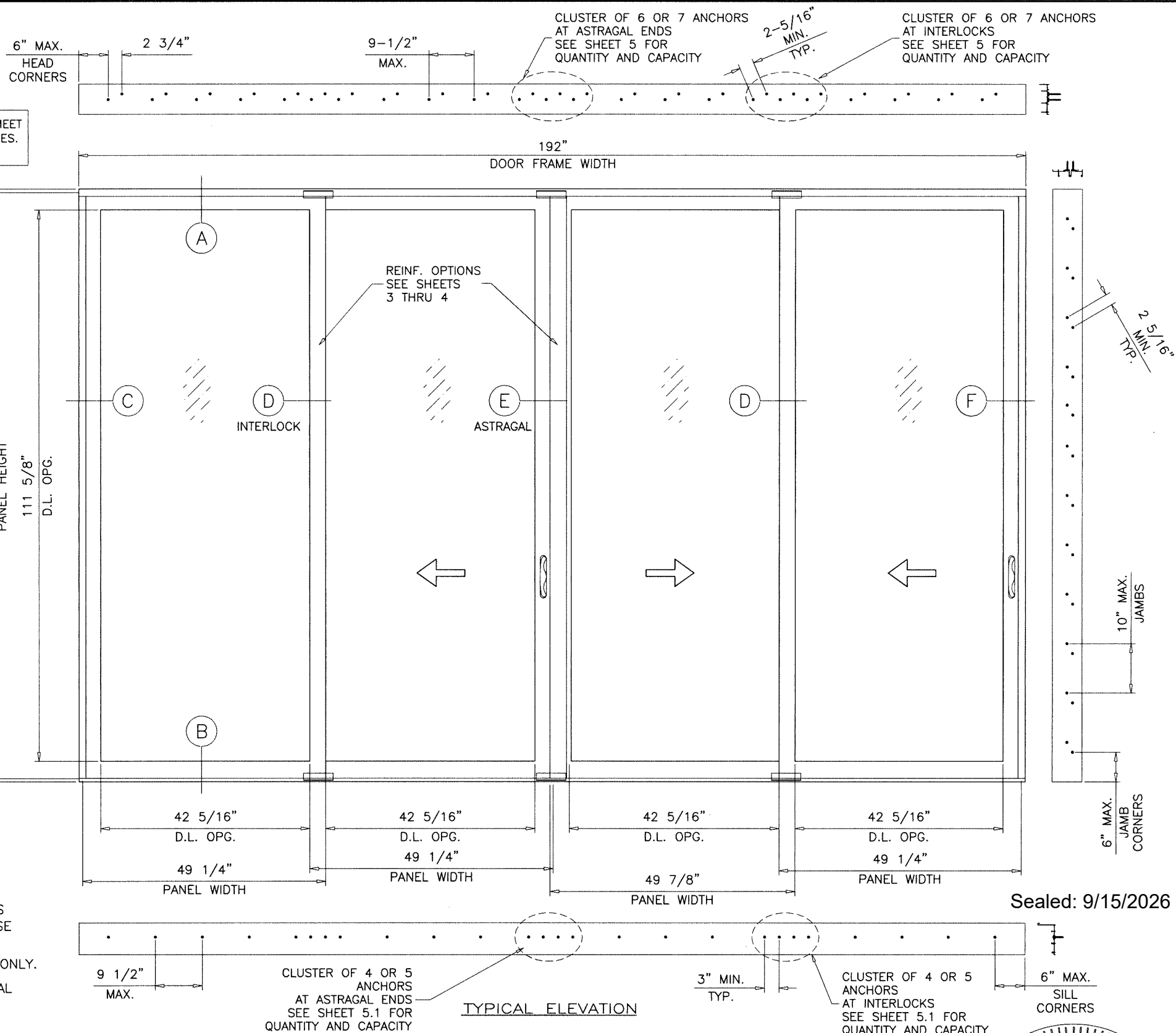
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



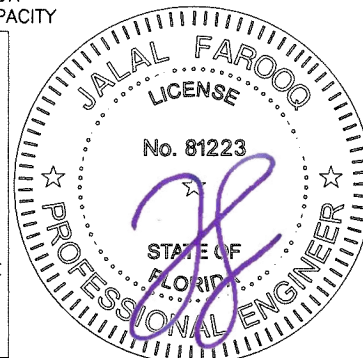
THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

LAMINATED GLASS
DRY GLAZED

FL #22251

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



Sealed: 9/15/2026

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

COMP-ANL W17-41ES

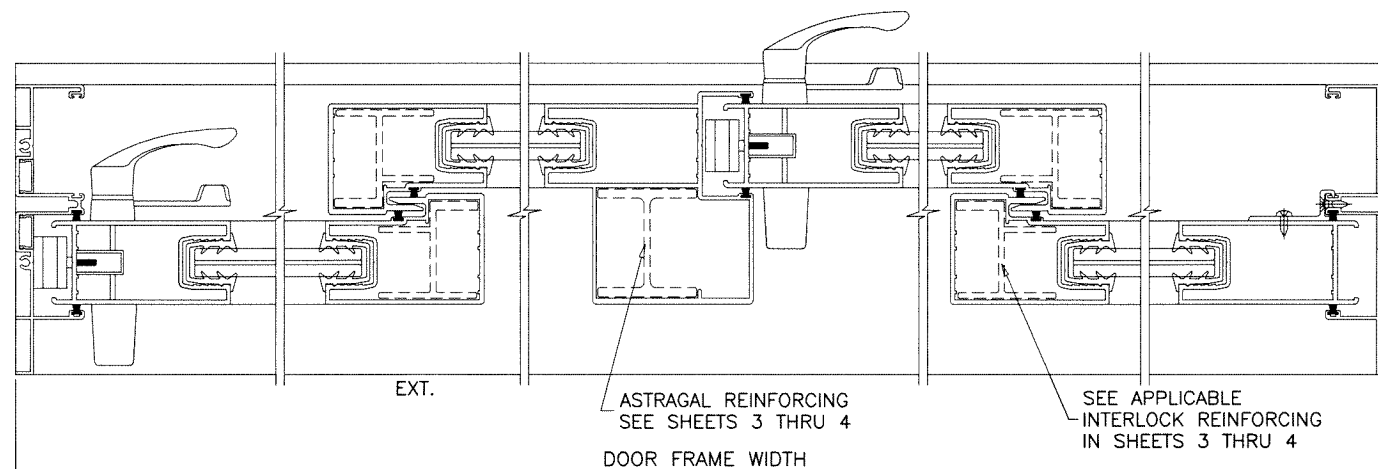
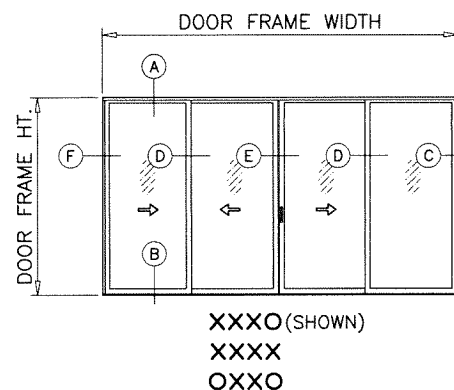
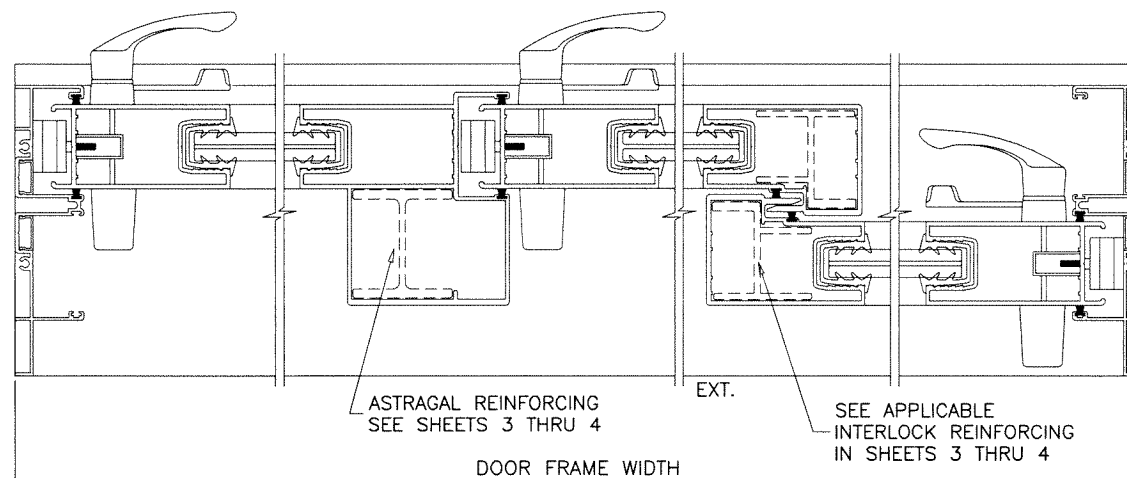
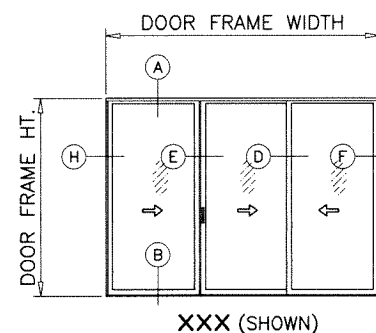
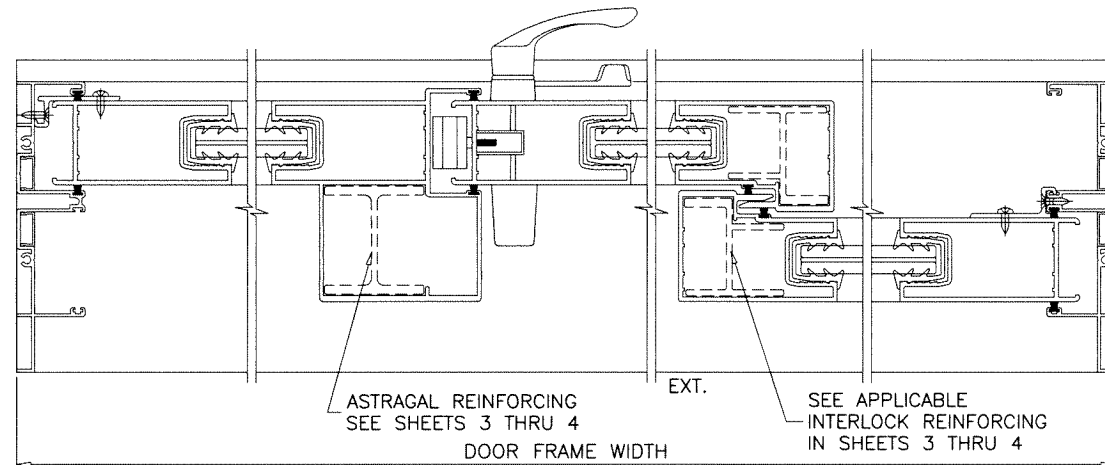
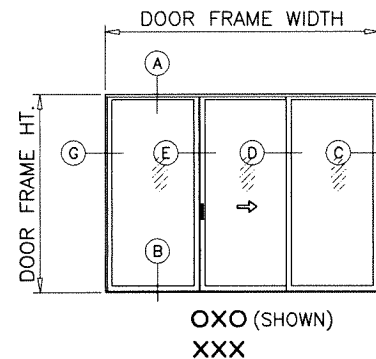
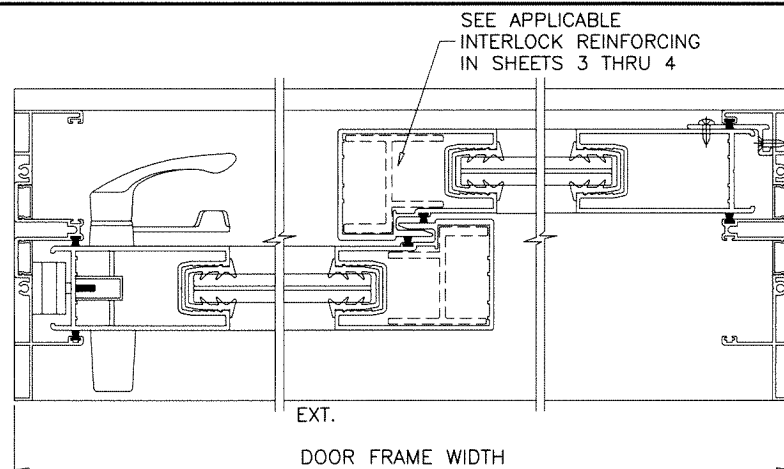
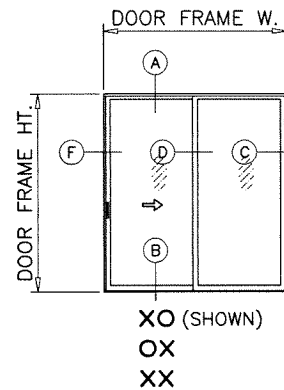
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	C	10.14.20		UPDATED TO 2020 FBC
	D	05.05.22		GLAZING OPTION ADDED
	E	07.25.23		UPDATED TO 2023 FBC
	F	09.14.26		UPDATED TO 2026 FBC

date: 04-10-17
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.

W17-41

sheet 1 of 12

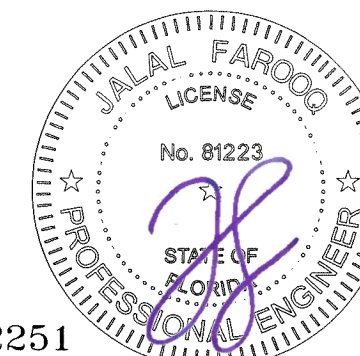


NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 4 AND ANCHOR INSTALLATION IN
SHEET 5.

APPROVED CONFIGURATIONS
TWO (2) TRACKS

MAX. OVERALL DOOR FRAME AREA NOT TO EXCEED 160 SQ. FT.

FL #22251



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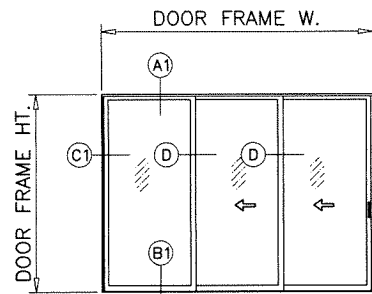
COMP-ANL W17-41ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

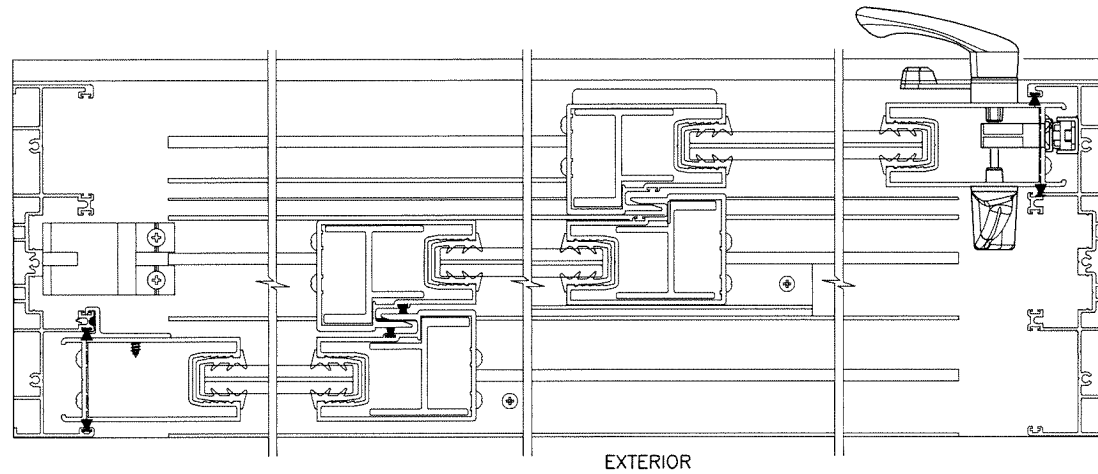
E.S. WINDOWS, LLC
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revisions:	
no	date by description

date: 04-10-17	scale: -	dr. by: TARIO	chk. by:	
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sheet 2 of 12				

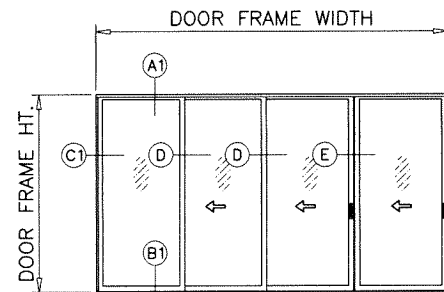


OXX (SHOWN)
XXO
XXX

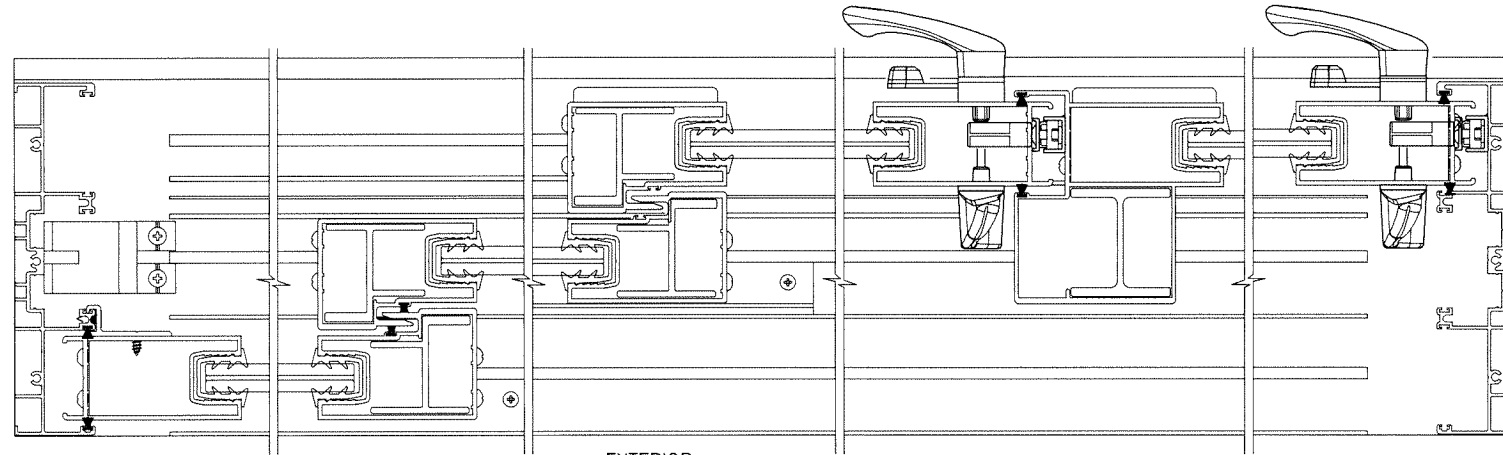


EXTERIOR

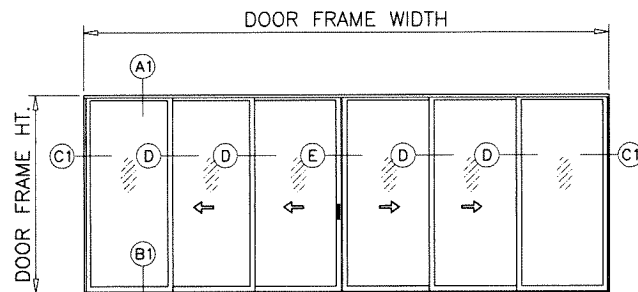
NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 4 AND ANCHOR INSTALLATION IN
SHEET 5.



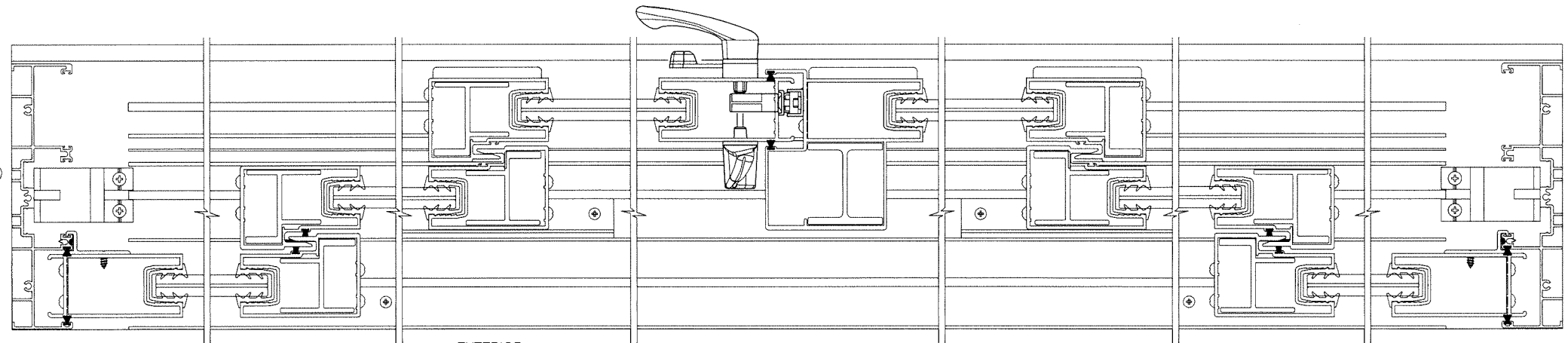
OXXX (SHOWN)
XXXO
XXXX



EXTERIOR



OXXXXO (SHOWN)
XXXXXX
OXXXXX



EXTERIOR

APPROVED CONFIGURATIONS
THREE (3) TRACKS

Sealed: 9/15/2026

FL #22251



SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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COMP-ANL\W17-41ES

revisions:
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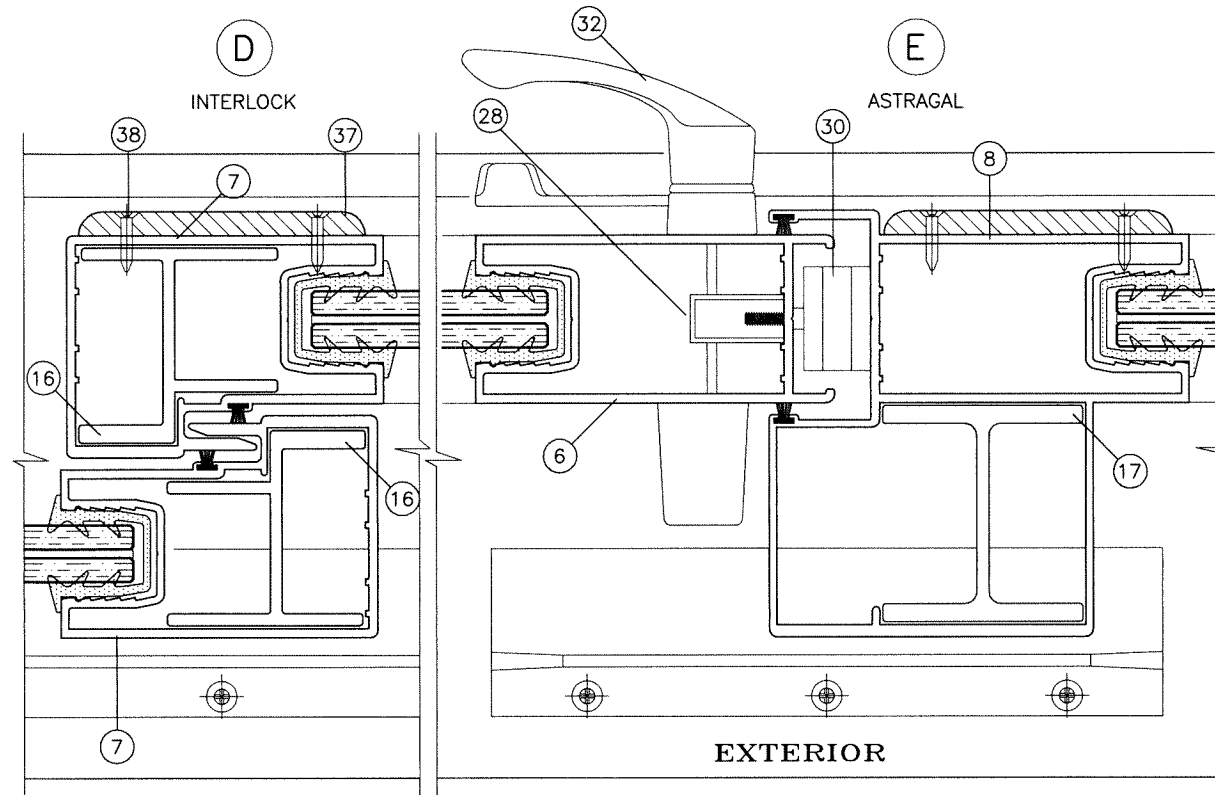
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chk. by:

drawing no.

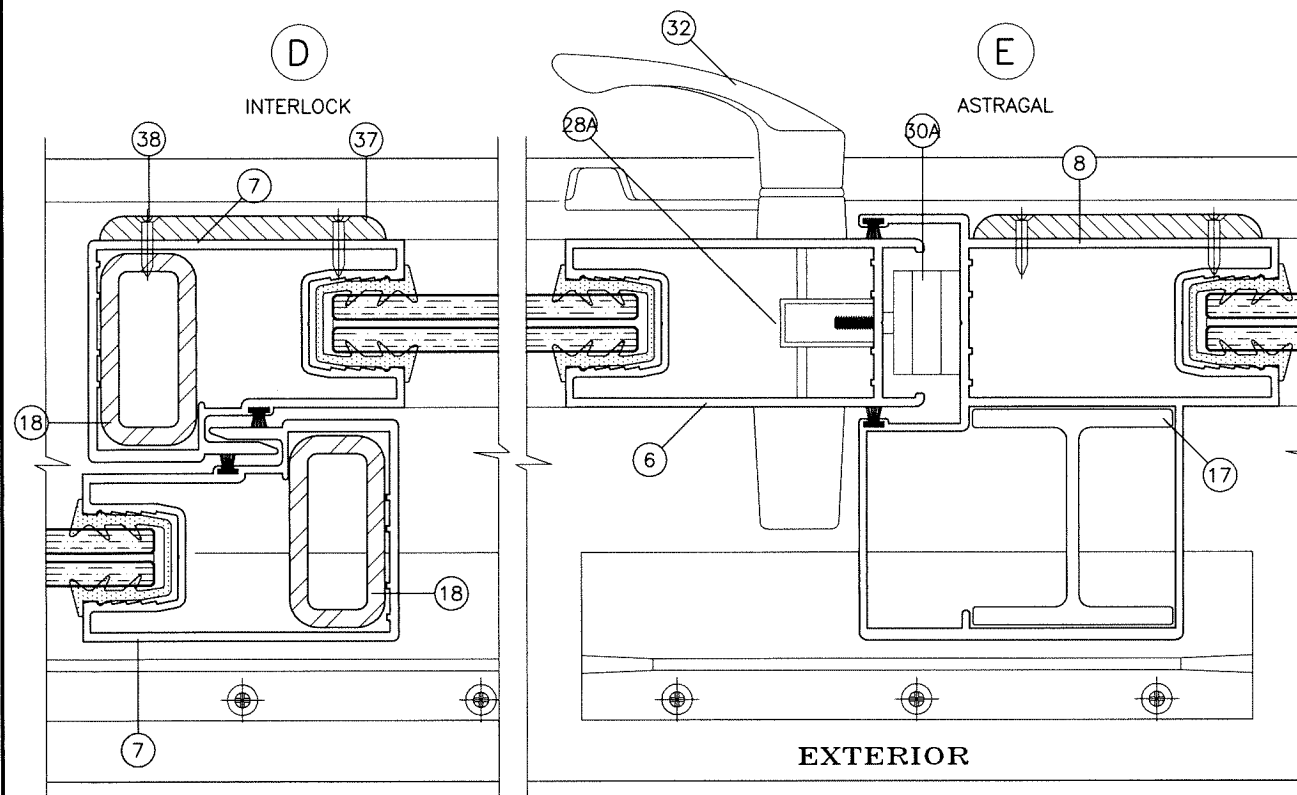
W17-41

sheet 2.1 of 12



REINFORCING OPTION #1

ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



REINFORCING OPTION #2

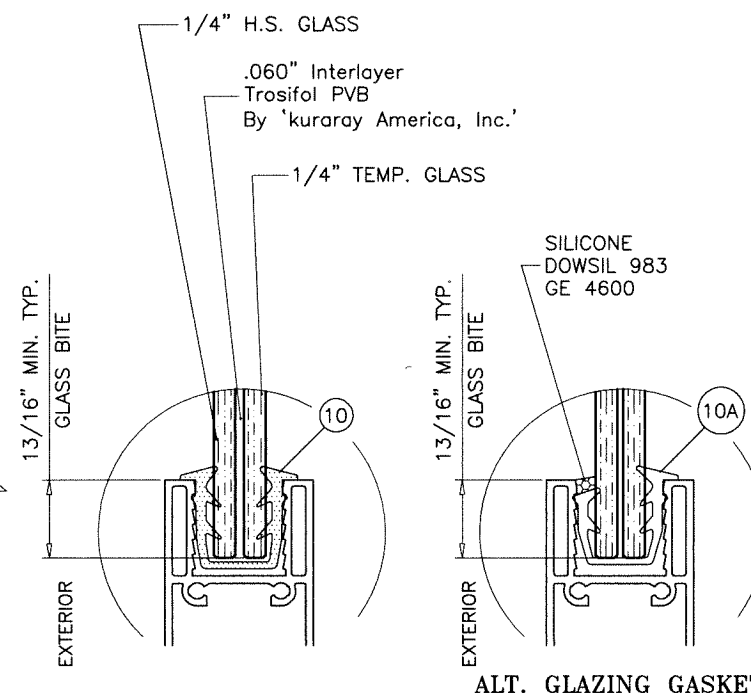
STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



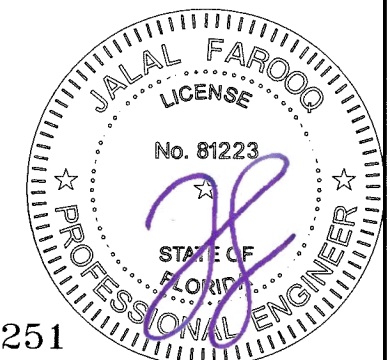
GLASS TYPE 'A' (DRY GLAZED)
GLAZING DETAIL

GLASS TYPE 'A' COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

DESIGN LOAD CAPACITY - PSF PVB LAMINATED GLASS TYPE 'A' ALL CONFIGURATIONS SHOWN ON SHEETS 2 & 2.1					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	140.0	85.0	123.0
40		85.0	140.0	85.0	123.0
44		85.0	140.0	85.0	115.7
48		85.0	140.0	85.0	110.0
50		85.0	134.4	81.6	105.6
53		81.6	126.8	77.0	99.6
56		72.9	120.0	72.9	94.3
60		68.0	112.0	68.0	88.0
36	96	85.0	140.0	85.0	123.0
40		85.0	136.4	85.0	123.0
44		85.0	127.4	85.0	115.7
48		85.0	120.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
60		80.0	80.0	68.0	88.0
36	102	85.0	100.0	85.0	123.0
40		85.0	100.0	85.0	123.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
36	108	85.0	100.0	85.0	123.0
40		85.0	100.0	85.0	123.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
36	108-1/4	85.0	100.0	85.0	123.0
40		85.0	100.0	85.0	123.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
36	114	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	96.0	85.0	110.0
50		85.0	96.0	81.6	105.6
53		85.0	90.5	77.0	99.6
56		85.0	85.7	72.9	94.3
36	120	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	96.2	85.0	110.0
48		85.0	90.0	85.0	110.0

FOR THREE (3) TRACK FRAMES
LIMIT MAX. DESIGN LOADS TO +85.0, -110.0 PSF.

Sealed: 9/15/2026



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COMP-ANL W17-41ES

SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

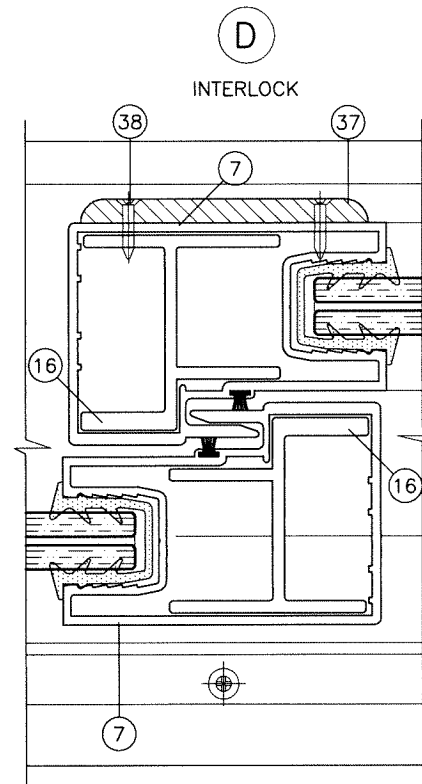
E.S. WINDOWS, LLC
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TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-41
sheet 3 of 12

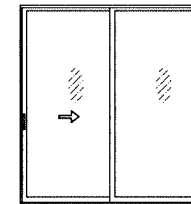


REINFORCING OPTION #1
ALUMINUM REINFORCING AT INTERLOCK

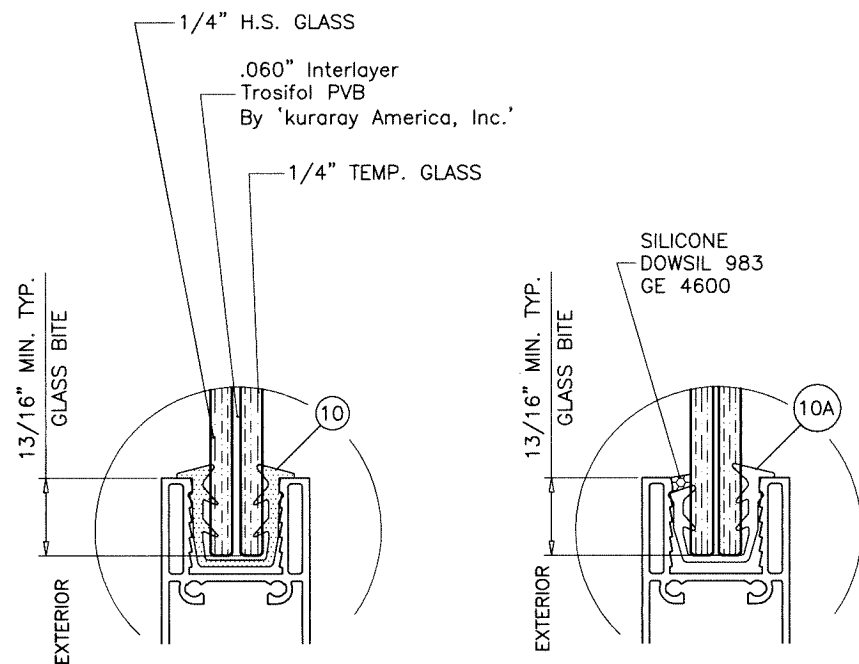
SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



'XO' OR 'OX' DOORS ONLY



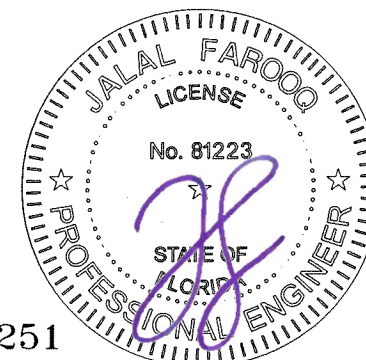
GLASS TYPE 'A' (DRY GLAZED)
GLAZING DETAIL

ALT. GLAZING GASKET

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

DESIGN LOAD CAPACITY - PSF PVB LAMINATED GLASS TYPE 'A' 'XO' OR 'OX' CONFIGURATIONS ONLY			
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	REINF. OPTION #1	
		EXT. (+)	INT. (-)
36	82	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56		94.3	94.3
60		88.0	88.0
36	84	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56		94.3	94.3
60		88.0	88.0
36	90	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
56		94.3	94.3
36	96	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
53		99.6	99.6
36	102	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0
50		105.6	105.6
36	108-1/2	110.0	110.0
40		110.0	110.0
44		110.0	110.0
48		110.0	110.0

Sealed: 9/15/2026



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SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

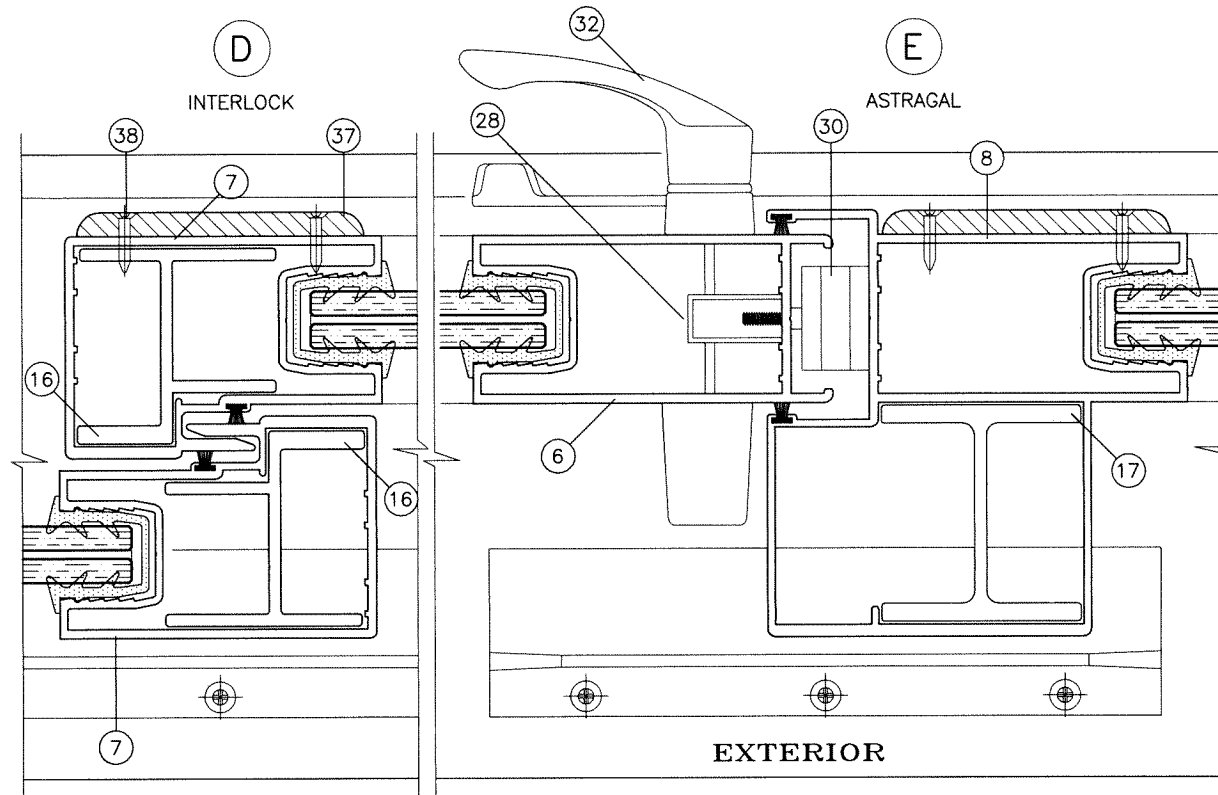
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no	date	by	description

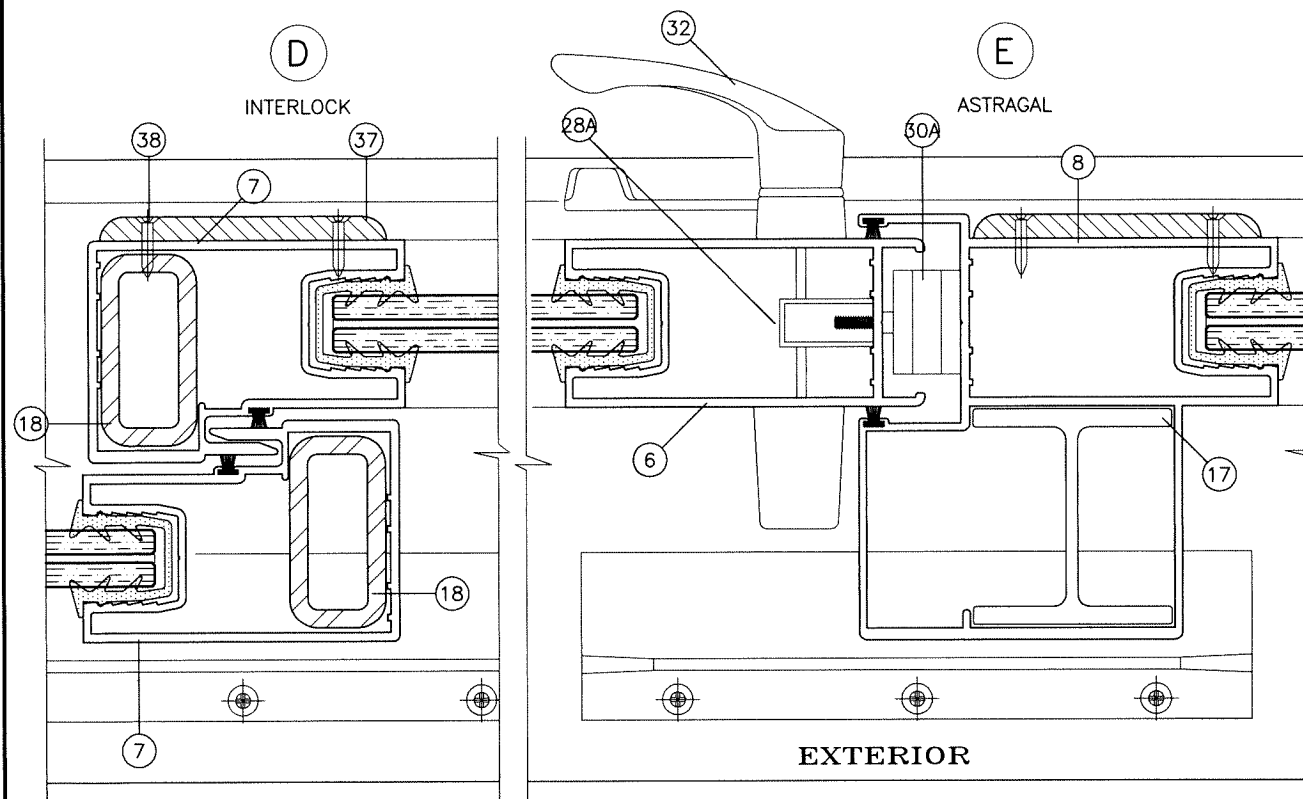
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-41
sheet 3.1 of 12



REINFORCING OPTION #1

ALUMINUM REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL



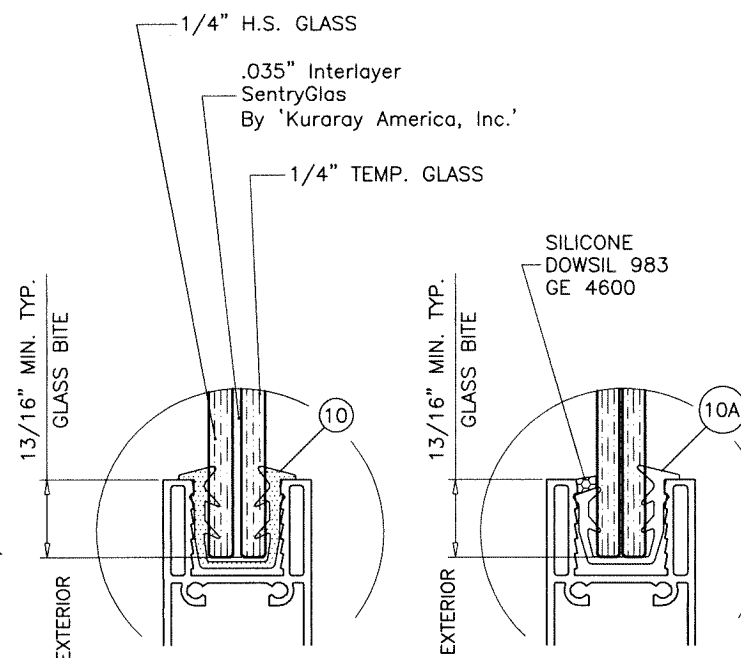
REINFORCING OPTION #2

STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

SEE CHART ON THIS SHEET FOR DESIGN LOAD CAPACITY
OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART,
HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY
TO ENTIRE SYSTEM.



GLASS TYPE 'A1' (DRY GLAZED) GLAZING DETAIL

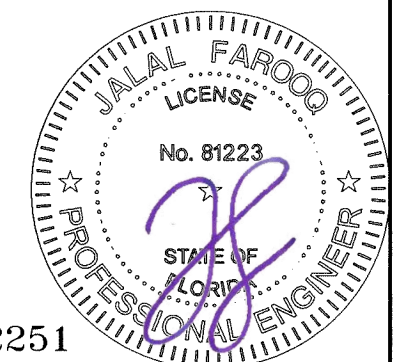
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

DESIGN LOAD CAPACITY - PSF SENTRIGLAS LAMINATED GLASS TYPE 'A1' ALL CONFIGURATIONS SHOWN ON SHEETS 2 & 2.1					
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	REINF. OPTION #1		REINF. OPTION #2	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	140.0
50		85.0	96.0	85.0	134.4
53		85.0	90.5	85.0	126.8
56		85.0	85.7	85.0	120.0
60		80.0	80.0	85.0	112.0
36	96	85.0	100.0	85.0	140.0
40		85.0	100.0	85.0	140.0
44		85.0	100.0	85.0	140.0
48		85.0	100.0	85.0	137.3
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		85.0	85.7	85.0	94.3
60		85.0	80.0	85.0	88.0
36	102	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		80.0	80.0	85.0	94.3
36	108	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	100.0	85.0	110.0
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		85.0	80.0	85.0	88.0
36	114	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	100.0	85.0	110.0
48		85.0	96.0	85.0	110.0
50		85.0	96.0	85.0	105.6
53		85.0	90.5	85.0	99.6
56		85.0	80.0	85.0	88.0
36	120	85.0	100.0	85.0	110.0
40		85.0	100.0	85.0	110.0
44		85.0	96.2	85.0	110.0
48		85.0	90.0	85.0	110.0
50		85.0	90.0	85.0	110.0
53		85.0	90.0	85.0	110.0
56		85.0	90.0	85.0	110.0

FOR THREE (3) TRACK FRAMES
LIMIT MAX. DESIGN LOADS TO +85.0, -110.0 PSF.

Sealed: 9/15/2026

FL #22251



SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no. date by description

date: 04-10-17
scale: 1/2" = 1"

dr. by: TARIQ

chk. by:

drawing no.

W17-41

sheet 4 of 12

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
C.A.N. 3538

COMP-ANL W17-41ES

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

- TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE
- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED
- TYPE 'C' - #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED

AT JAMBS

- TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS
- TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS
- TYPE 'C' - #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

HEAD ANCHOR LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR 'B'	ANCHOR 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	140.0
50		140.0	140.0	140.0	140.0
53		140.0	140.0	140.0	140.0
56		134.4	140.0	140.0	140.0
60		132.4	140.0	140.0	140.0
30	84	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		140.0	140.0	140.0	140.0
48		140.0	140.0	140.0	140.0
50		140.0	140.0	140.0	140.0
53		135.5	140.0	140.0	140.0
56		131.7	140.0	140.0	140.0
60		127.5	140.0	140.0	140.0
30	90	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		140.0	140.0	140.0	140.0
42		140.0	140.0	140.0	140.0
44		138.0	140.0	140.0	140.0
48		130.4	140.0	140.0	140.0
50		127.1	140.0	140.0	140.0
53		122.7	140.0	140.0	140.0
56		118.9	138.8	140.0	140.0
60		114.7	133.8	140.0	140.0
30	96	140.0	140.0	140.0	140.0
36		140.0	140.0	140.0	140.0
40		135.9	140.0	140.0	140.0
42		131.1	140.0	140.0	140.0
44		126.8	140.0	140.0	140.0
48		119.5	139.4	140.0	140.0
50		110.0	110.0	110.0	110.0
53		110.0	110.0	110.0	110.0
56		106.3	110.0	110.0	110.0
60		104.3	110.0	110.0	110.0
30	102	123.0	123.0	123.0	123.0
36		123.0	123.0	123.0	123.0
40		123.0	123.0	123.0	123.0
42		123.0	123.0	123.0	123.0
44		110.0	110.0	110.0	110.0
48		110.0	110.0	110.0	110.0
50		107.3	110.0	110.0	110.0
53		103.2	110.0	110.0	110.0

HEAD ANCHOR LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR 'B'	ANCHOR 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	108-1/2	123.0	123.0	123.0	123.0
36		123.0	123.0	123.0	123.0
40		123.0	123.0	123.0	123.0
42		123.0	123.0	123.0	123.0
44		108.5	110.0	110.0	110.0
48		101.8	110.0	110.0	110.0
50		98.9	110.0	110.0	110.0
53		95.0	110.0	110.0	110.0
30	114	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		109.8	110.0	110.0	110.0
42		105.7	110.0	110.0	110.0
44		102.0	110.0	110.0	110.0
48		95.6	110.0	110.0	110.0
50		92.8	108.3	110.0	110.0
30	120	110.0	110.0	110.0	110.0
36		110.0	110.0	110.0	110.0
40		103.2	110.0	110.0	110.0
42		99.3	110.0	110.0	110.0
44		95.8	110.0	110.0	110.0
48		89.6	104.6	110.0	110.0

SEE CHART ON SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.
SEE CHART ON SHEET 5.1 FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.



Sealed: 9/15/2026

FL #22251

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revisions:

no	date	by	description

date: 04-10-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-41
sheet 5 of 12

SILL ANCHOR LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		140.0	140.0
48		140.0	140.0
50		140.0	140.0
53		140.0	140.0
56		140.0	140.0
60		140.0	140.0
30	84	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		140.0	140.0
48		140.0	140.0
50		140.0	140.0
53		140.0	140.0
56		140.0	140.0
60		138.7	140.0
30	90	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		140.0	140.0
48		140.0	140.0
50		138.2	140.0
53		133.5	140.0
56		129.4	140.0
60		124.8	140.0
30	96	140.0	140.0
36		140.0	140.0
40		140.0	140.0
42		140.0	140.0
44		138.0	140.0
48		130.0	140.0
50		110.0	110.0
53		110.0	110.0
56		110.0	110.0
60		110.0	110.0
30	102	123.0	123.0
36		123.0	123.0
40		123.0	123.0
42		123.0	123.0
44		110.0	110.0
48		110.0	110.0
50		110.0	110.0
53		110.0	110.0

SILL ANCHOR LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	108-1/2	123.0	123.0
36		123.0	123.0
40		123.0	123.0
42		123.0	123.0
44		110.0	110.0
48		110.0	110.0
50		107.6	110.0
53		103.4	110.0
30	114	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		110.0	110.0
44		110.0	110.0
48		104.0	110.0
50		101.0	110.0
30	120	110.0	110.0
36		110.0	110.0
40		110.0	110.0
42		108.1	110.0
44		104.2	110.0
48		97.5	110.0

SEE CHART ON SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR SILL ANCHOR CAPACITY.

SEE CHART ON SHEET 5 FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

FL #22251



Sealed: 9/15/2026

**AL-FAROOQ CORPORATION**
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

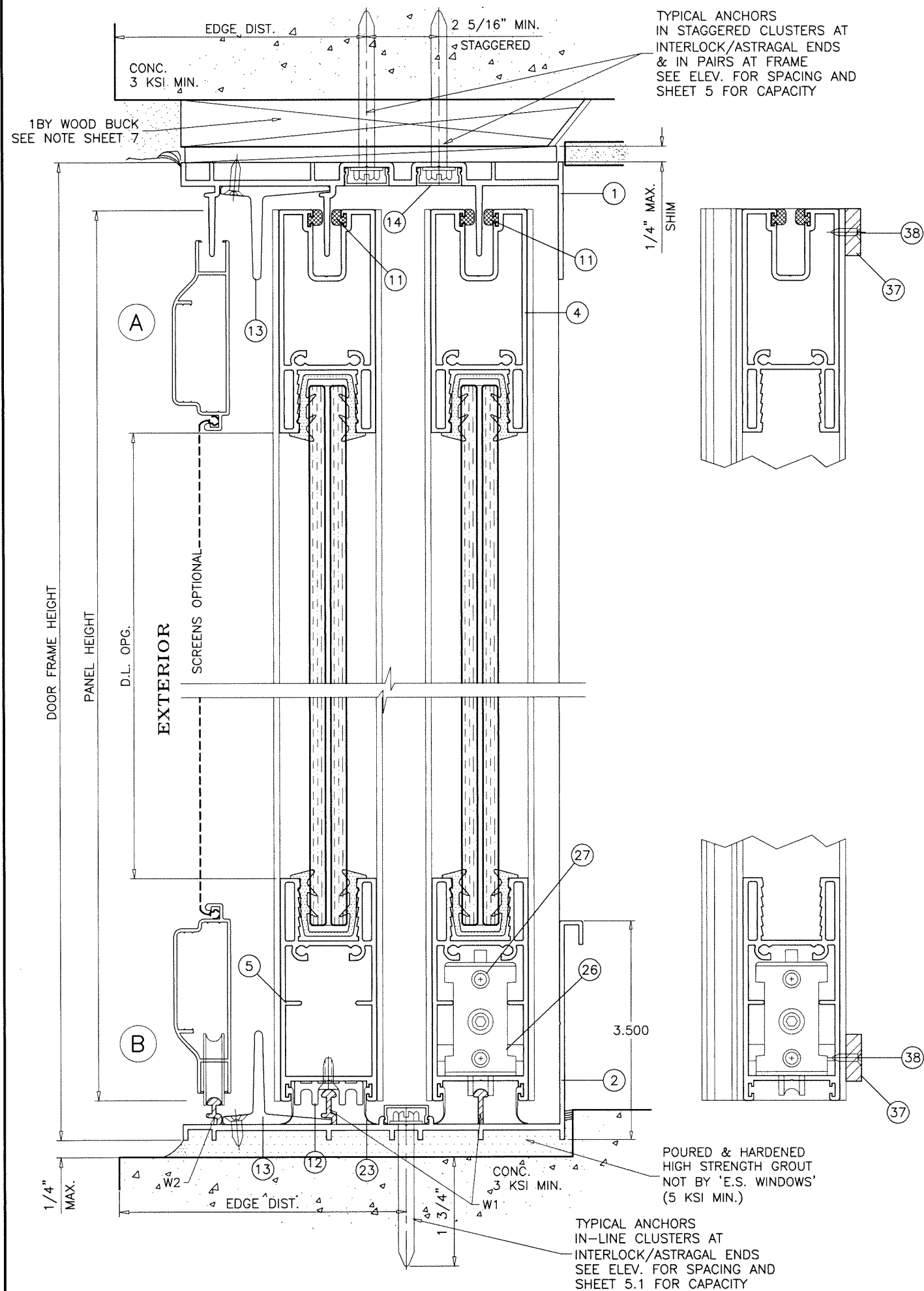
SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no. date by description

date: 04-10-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-41
sheet **5.1** of **12**

COMP-ANL\W17-41ES



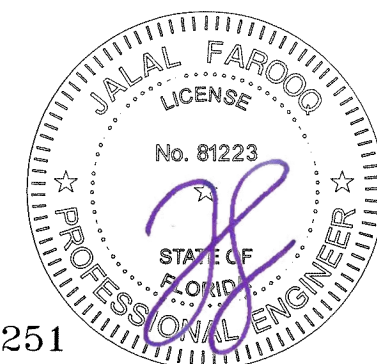
SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

W1 = 2-5/8" LONG WEEP NOTCH AT EACH END
W2 = 1" LONG WEEP NOTCH AT EACH END

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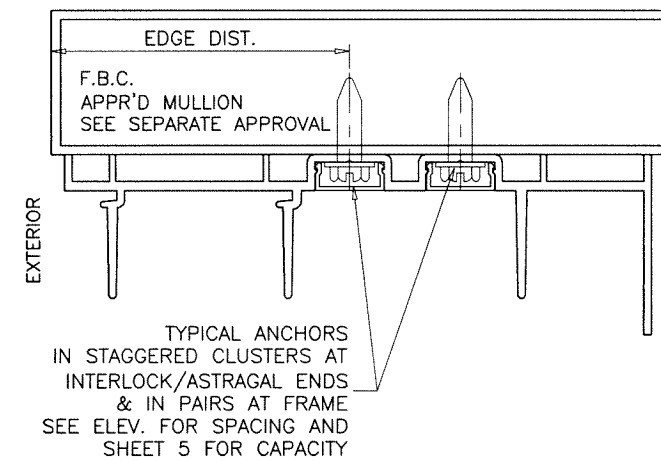
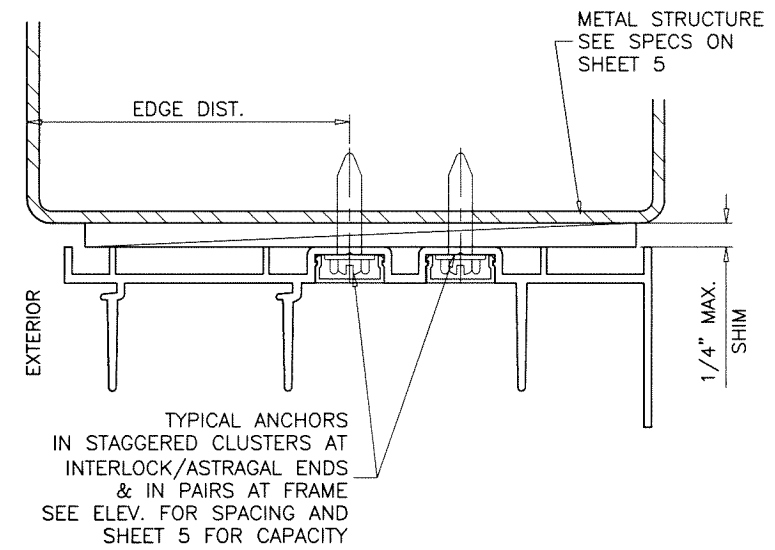
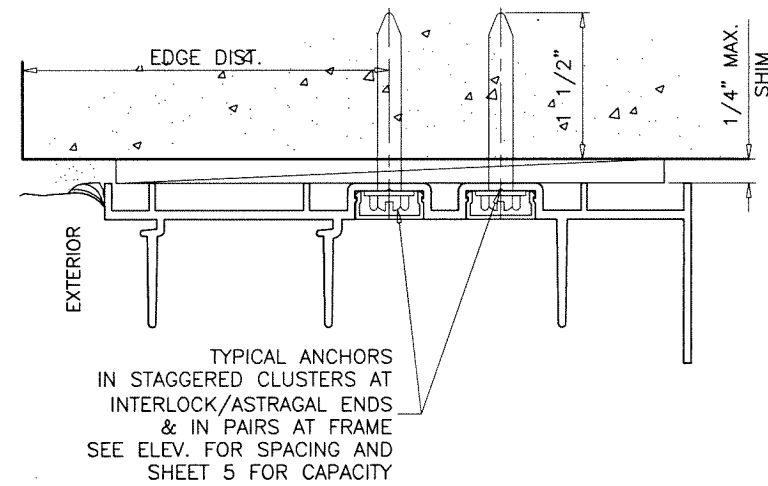
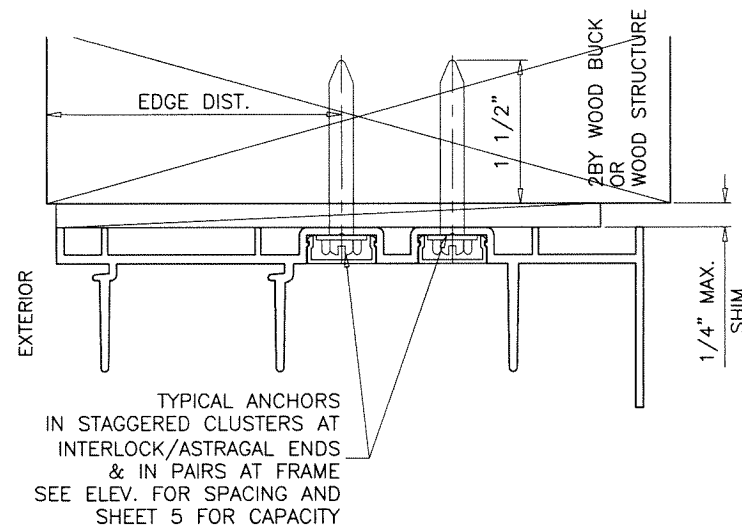
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drawing no.

W17-41

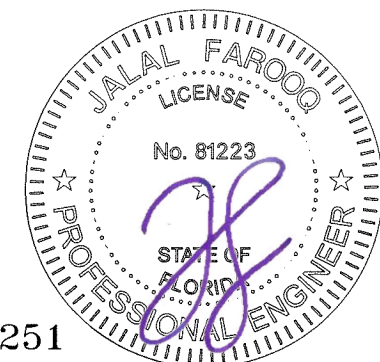
sheet 6 of 12

COMP-ANL\W17-41ES



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WINDOWS' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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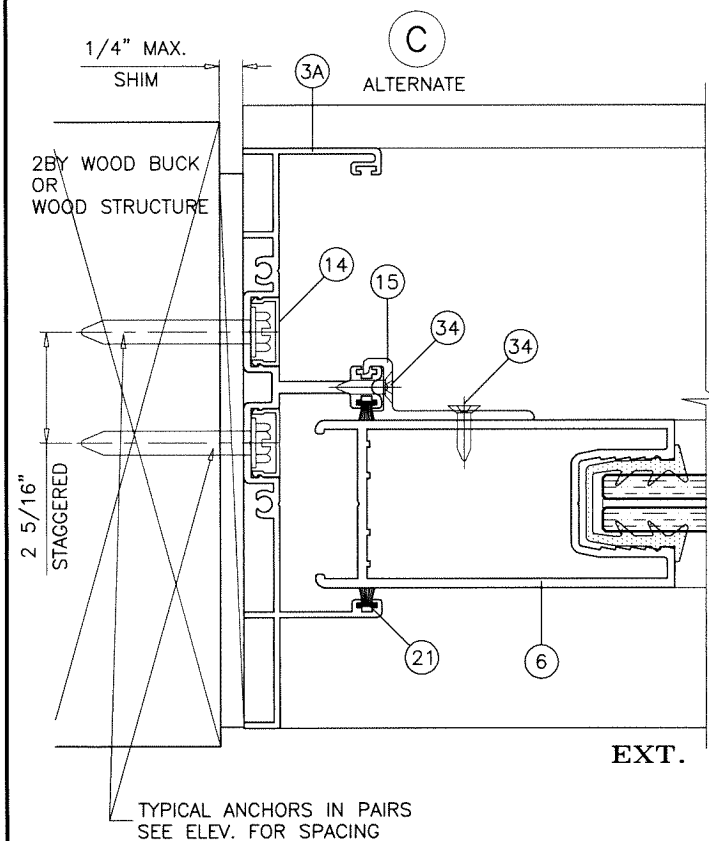
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chk. by:

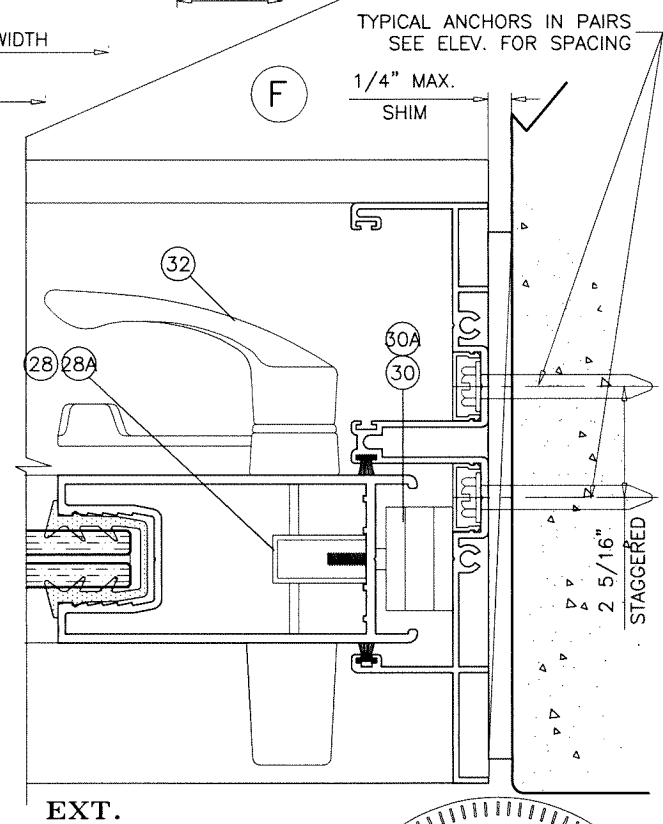
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sheet 7 of 12

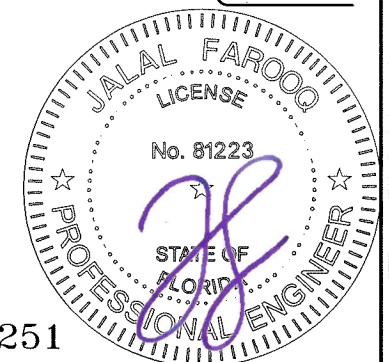


Technical drawing showing an alternate exterior door assembly cross-section. The drawing includes the following labels and dimensions:

- F**: Label for the door frame.
- ALTERNATE**: Text indicating this is an alternate design.
- 3A**: Label for a component of the door frame.
- 32**: Label for the door panel.
- 28** and **28A**: Labels for the door handle assembly.
- 50A** and **30**: Labels for the door lock assembly.
- SHIM**: Label for the shims used for door adjustment.
- 1/4" MAX.**: Dimension for the maximum shim thickness.
- 2 5/16"**: Dimension for the door thickness.
- STAGGERED**: Label indicating the staggered arrangement of the door components.
- EXT.**: Label for the exterior side of the door.



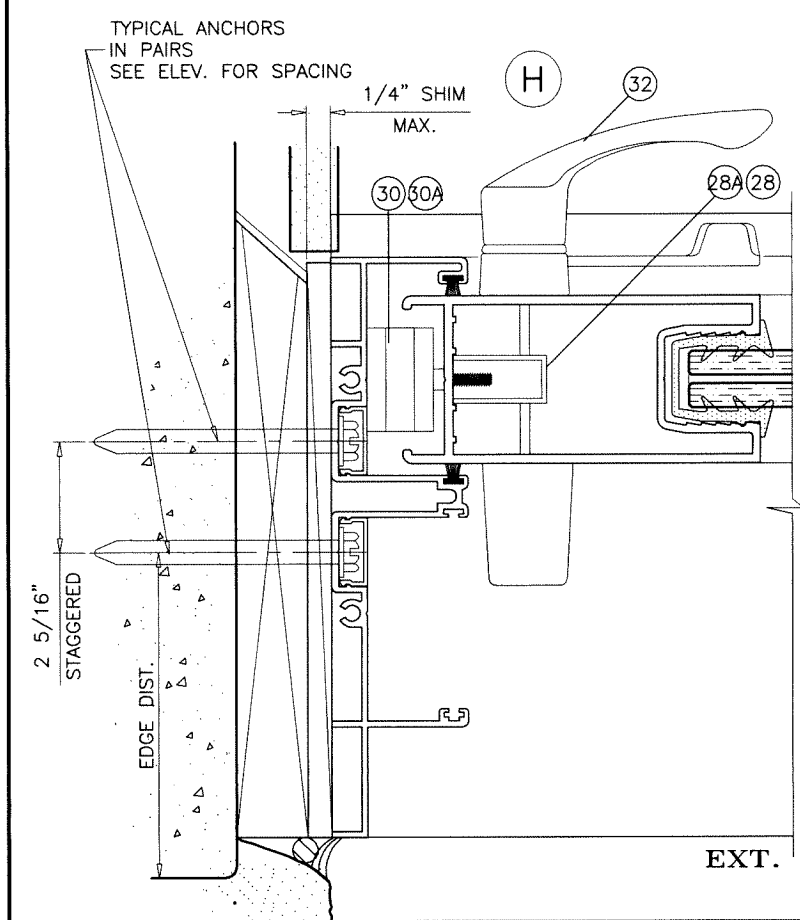
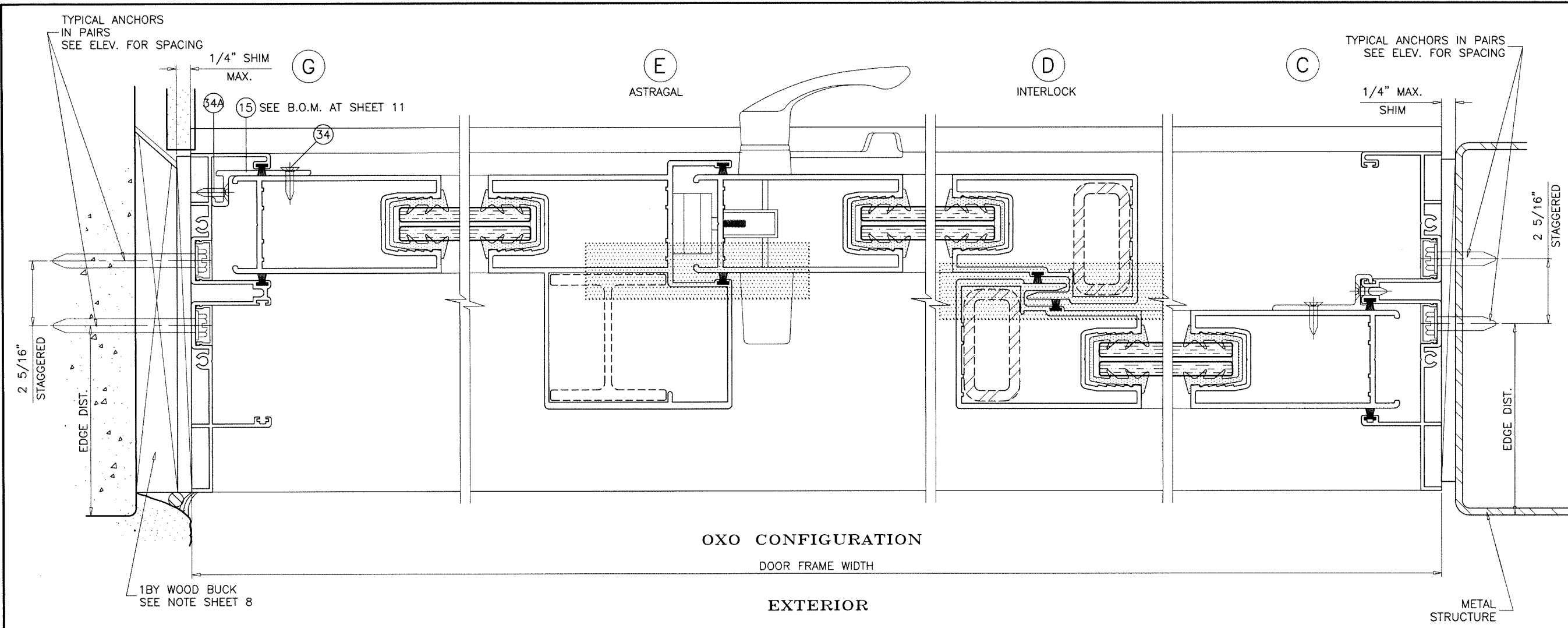
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[illegible]



OXO CONFIGURATION

DOOR FRAME WIDTH

EXTERIOR

ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL STILES SHOWN FOR ILLUSTRATION ONLY.
 USE AS SHOWN ON SHEETS 3 THRU 4.
 SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
 SEE ELEVATION FOR ANCHOR SPACING AND SHEET 5 & 5.1 FOR ANCHOR CAPACITY.

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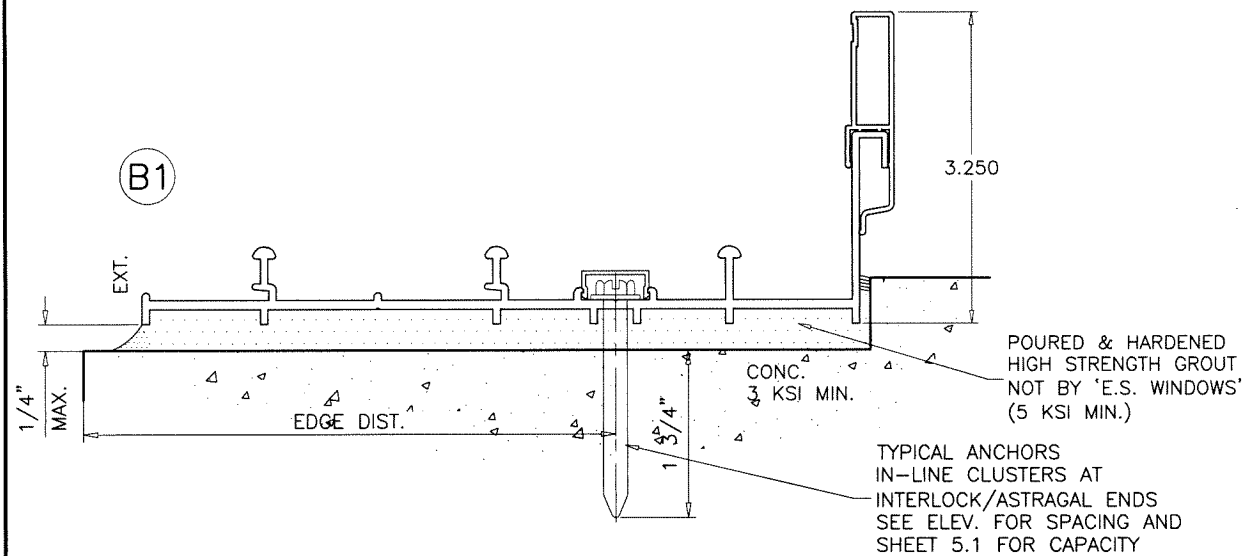
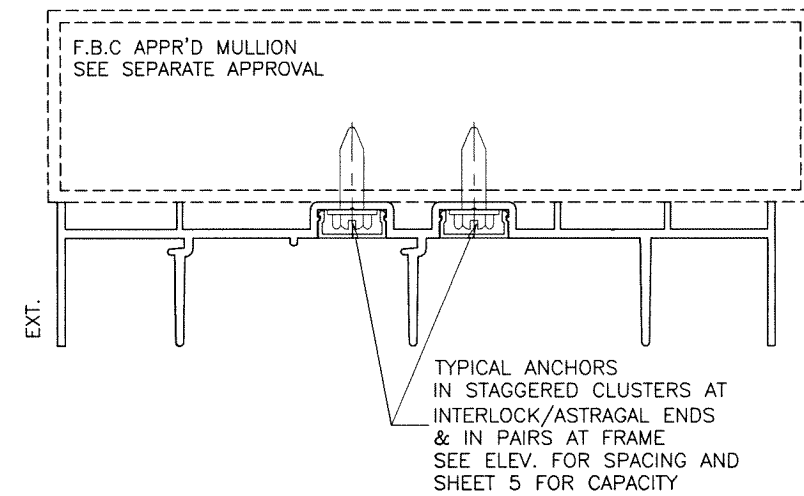
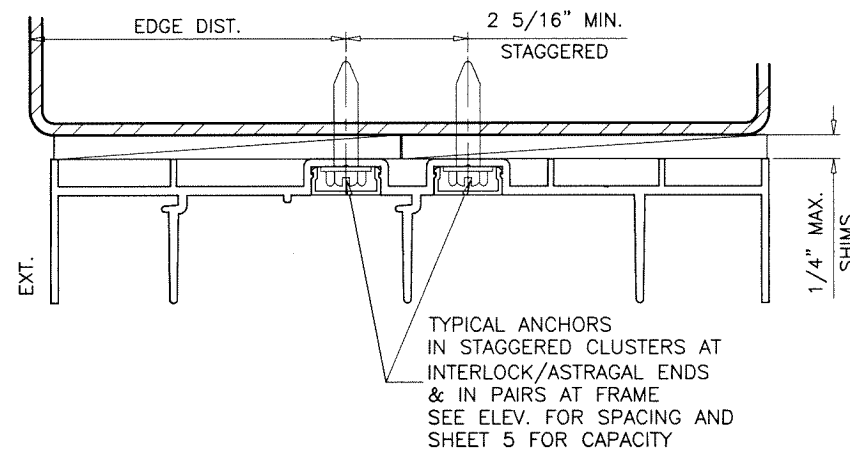
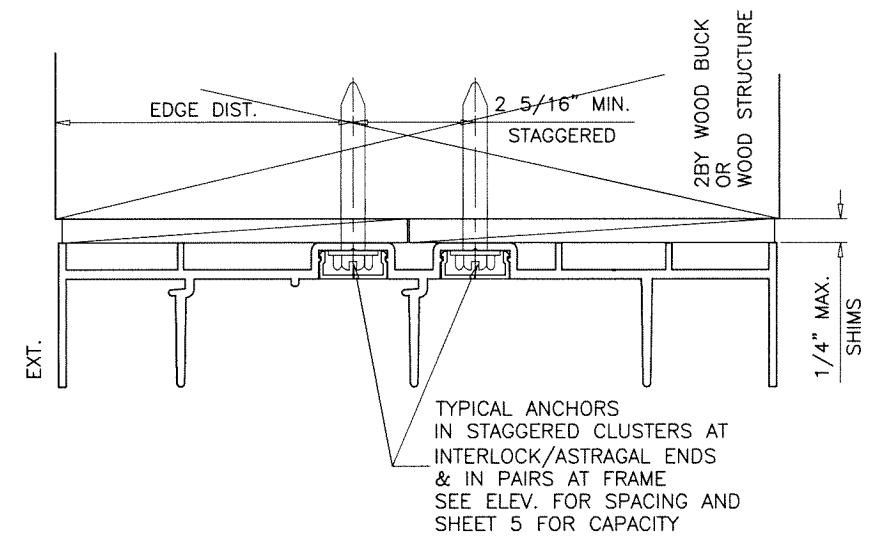
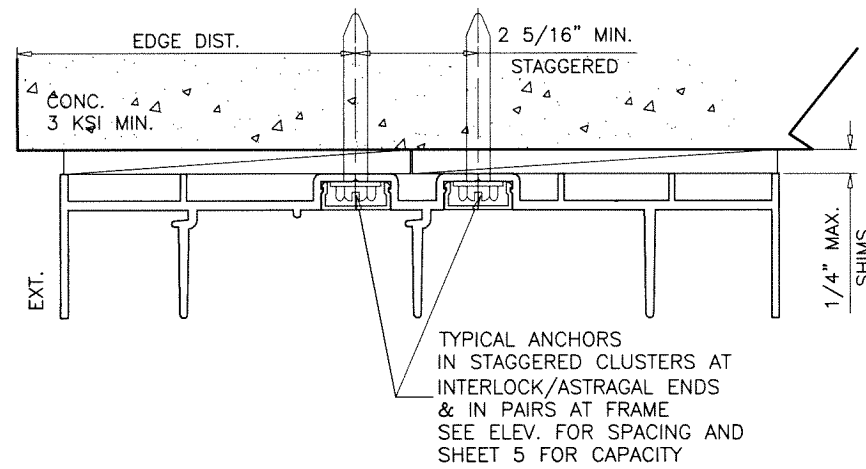
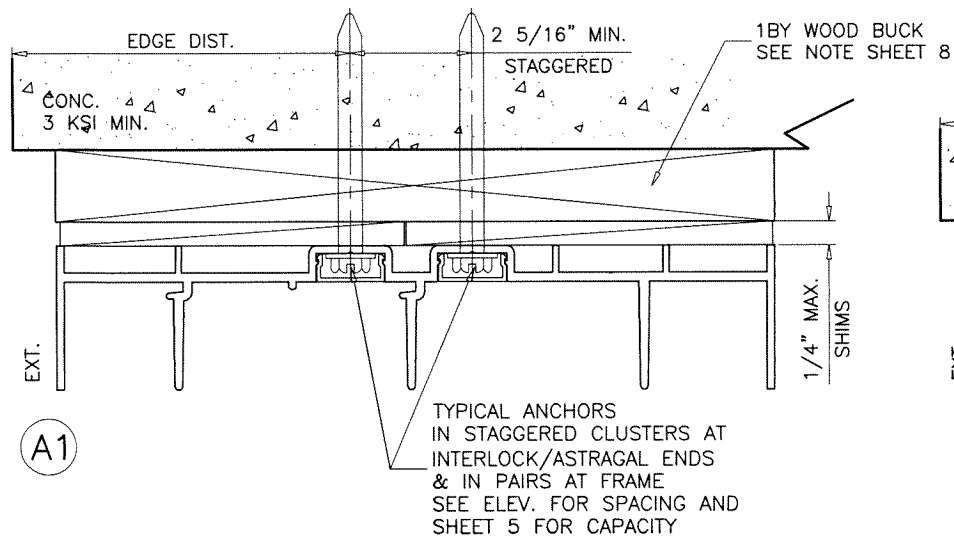
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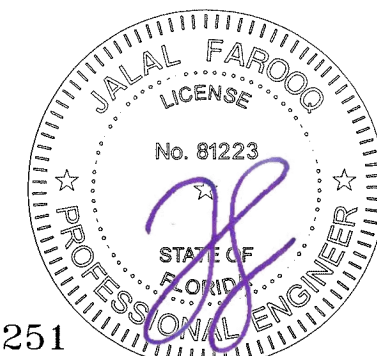
drawing no.
W17-41
 sheet 9 of 12



3 TRACK FRAMES ANCHOR LOCATIONS

Sealed: 9/15/2026

FL #22251



SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

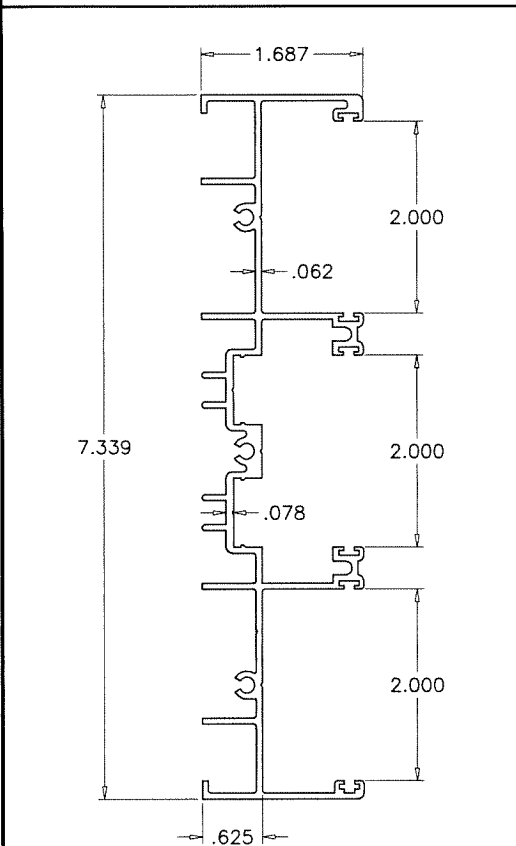
E.S. WINDOWS, LLC
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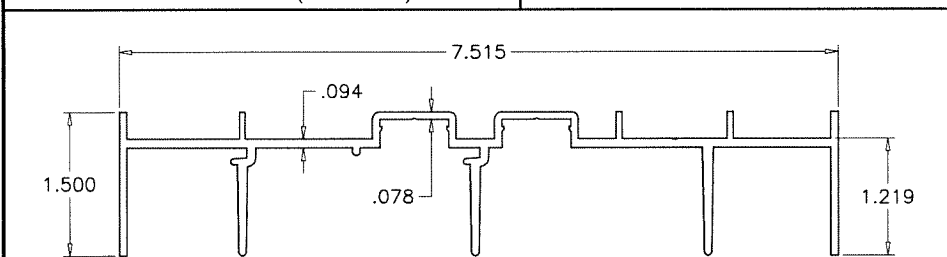
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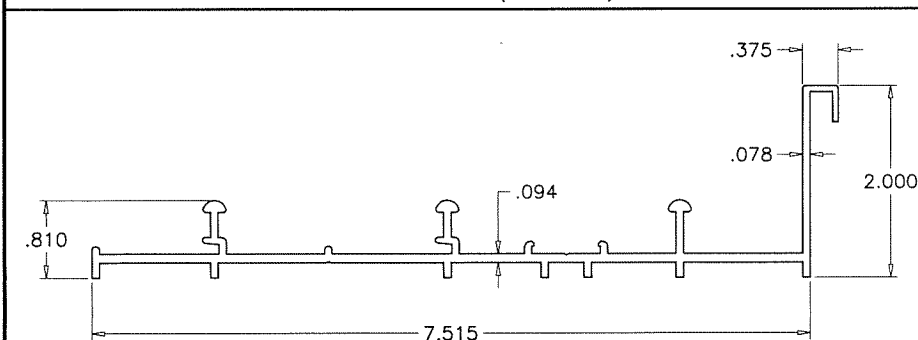
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drawing no.
W17-41
sheet 9.1 of 12



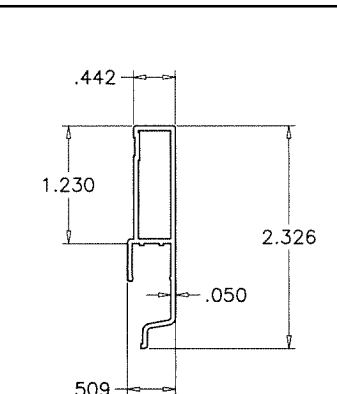
(3.1) FRAME JAMB (3 TRACK)



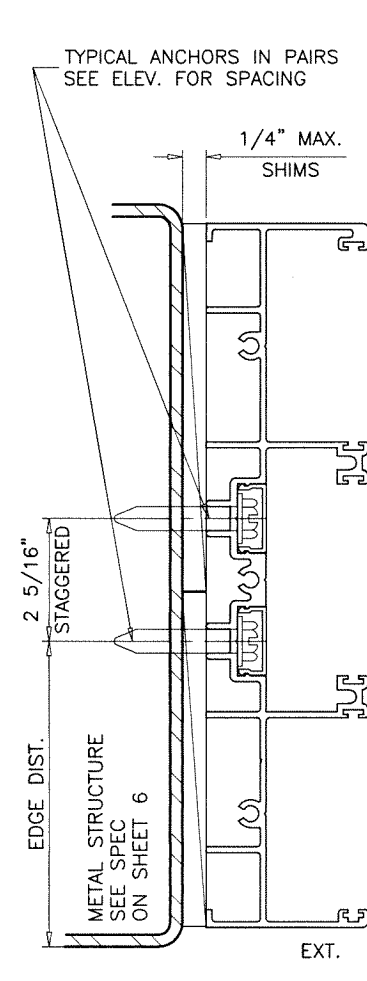
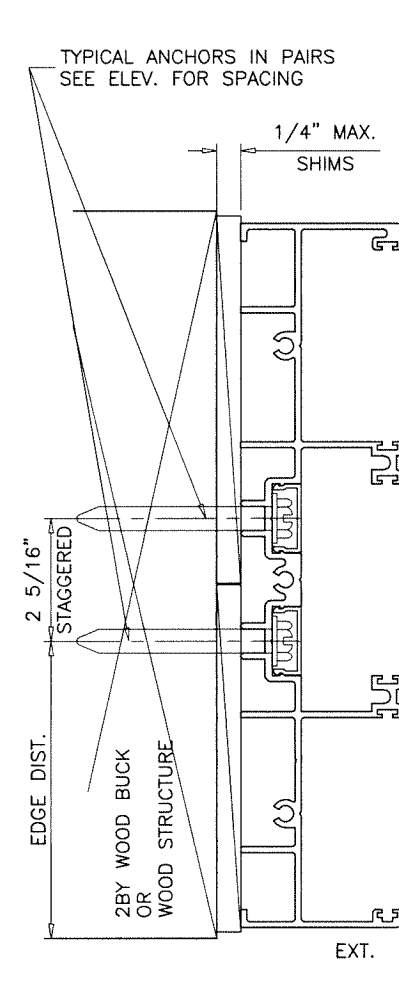
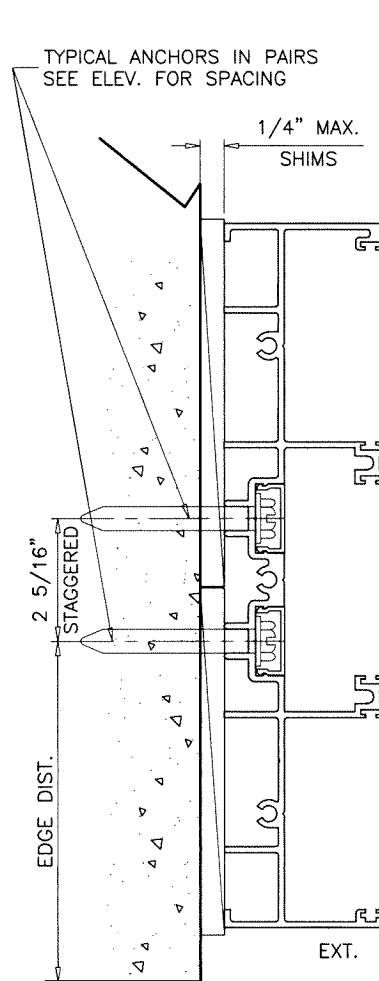
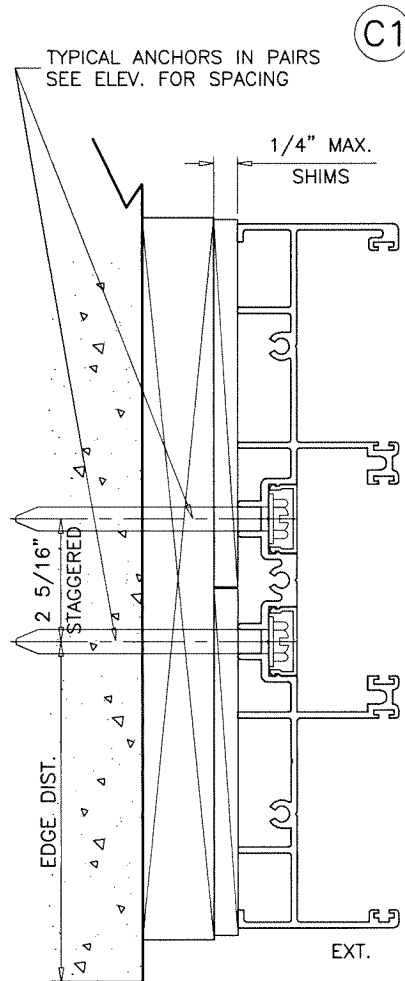
(1.1) FRAME HEAD (3 TRACK)



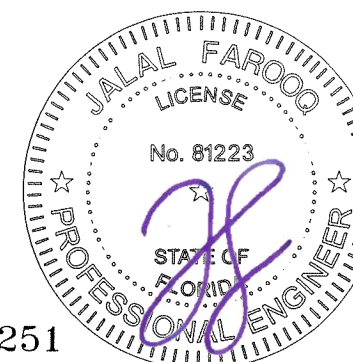
(2.1) FRAME SILL (3 TRACK)



(2A) SILL RISER (3 TRACK)



3 TRACK FRAMES ANCHOR LOCATIONS



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SERIES-6100 ALUM SLIDING GLASS DOOR (S.M.I.)

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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES6001	1	FRAME HEAD (2 TRACK)	6005-T5	-
1.1	ES-6000-401	1	FRAME HEAD (3 TRACK)	6005-T5	-
2	ES6023	1	FRAME SILL - 3-1/2" HIGH (2 TRACK)	6005-T5	-
2.1	ES-6000-402	1	FRAME SILL (3 TRACK)	6005-T5	-
2A	ES-6028	1	SILL RISER (3 TRACK)	6063-T6	-
3	ES6003	2	FRAME JAMB (2 TRACK)	6063-T6	-
3.1	ES-6000-403	2	FRAME JAMB (3 TRACK)	6063-T6	-
3A	ES6030	2	ALTERNATE FRAME JAMB (2 TRACK)	6063-T6	-
4	ES-6000-040	2/ PANEL	TOP RAIL	6063-T6	-
5	ES-6000-041	2/ PANEL	BOTTOM RAIL	6063-T6	-
6	ES-6000-042	AS REQD.	LOCK STILE	6063-T6	-
7	ES-6000-043	AS REQD.	INTERLOCK	6063-T6	-
8	ES-6000-044	AS REQD.	FEMALE ASTRAGAL	6063-T6	-
10	27-564	4/ PANEL	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
10A	ES-6100-G03 S	4/ PANEL	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
11	ES6016	4/ PANEL	PANEL GUIDE (TOP ONLY)	CELCON	-
12	ES6015	2/ PANEL	FIXED PANEL BOTTOM GUIDE	6063-T6	SECURE W/ (2) #8 X 3/4" FH SMS
13	ES6010	2/ PANEL	RETAINER CLIP, 8" LONG AT HEAD, 7" LONG AT SILL	6005-T5	AT MTG. RAIL HEAD & SILL ENDS
13A	#8 X 3/4"	3/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	FH SMS
14	ES6011	2/ JAMB	JAMB SCREW COVER	6063-T5	OPTIONAL
15	ES6014	3/ FIX. PANEL	FIXED PANEL CLIP, 4" LONG, AT 53" O.C.	6063-T6	AT 7" FROM EACH END AND AT MIDSPAN
16	ES6012	AS REQD.	INTERLOCK STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
17	ES6013	AS REQD.	ASTRAGAL STIFFENER (LENGTH = PANEL HT. - 2-3/8")	6063-T6	-
18	1" X 2" X 3/16"	AS REQD.	STEEL TUBE REINFORCING (LENGTH = PANEL HT. - 2-3/8")	A36 STEEL	TO BE PAINTED
21	W222521K	AS REQD.	STILE & JAMB W'STRIPPING	-	ULTRAFAB
22	W223221K	AS REQD.	TOP RAIL W'STRIPPING	-	ULTRAFAB
23	ES6027	AS REQD.	BOTTOM RAIL W'STRIPPING	EPDM	DUROMETER 75±4 SHORE A
24	#10 X 1-1/2" PH SMS	8/ PANEL	PANEL ASSY SCREWS	-	-
25	#10 X 1" PH SMS	2/ CORNER	FRAME ASSY SCREWS	-	-
26	-	2/ MOV. PANEL	ACETAL WHEEL IN METALLIC HOUSING WITH SINGLE OR DUAL ROLLERS	-	-
27	1/4-20 X 1-3/4" PH MS	1/ ROLLER	ROLLER INST. SCREWS	-	-
28	2300-10SS	1/ MOV. PANEL	STD. MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	-
28A	2468T-00	1/ MOV. PANEL	MULTI POINT MORTISE LOCK, AT 48-1/2" FROM BOTTOM	ST. STEEL	WITH 2448 TRIM PLATE
29	#10-24 X 3/8" PH MS	2/ LOCK	LOCK INSTALLATION SCREW	ST. STEEL	-
30	ES6017-1	1/ LOCK	LOCK KEEPER (STD. LOCK)	PLATED STEEL	AT 48-1/2" FROM BOTTOM
30A	2447-00	1/ LOCK	LOCK KEEPER (MULTI POINT LOCK)	ST. STEEL	AT 48-1/2" FROM BOTTOM
31	#10 X 5/8" PH SMS B	2/ LOCK	LOCK KEEPER MOUNT. SCREW (STD. LOCK)	ST. STEEL	-
31A	#8 X 3/4" FH SMS	4/ LOCK	LOCK KEEPER MOUNT. SCREW (MULTI POINT LOCK)	ST. STEEL	-
32	#623Z	1/ LOCK	INTERIOR AND EXTERIOR PULL	-	(3) #6-32 X 1/2" FH MS, ST. STEEL
34	#12 X 3/4"	2/ CLIP	FIXED PANEL CLIP FASTENER	ST. STEEL	FH SMS
35	-	AS REQD.	1"X4" LONG SELF ADHESIVE PILE PAD	WOOLPILE	AT HEAD AND SILL
37	ES6019	AS REQD.	RESTRAINING PLATE	NYLON	AT TOP & BOTT. INTERLOCKS & ASTRAGAL
38	#8 X 3/4" FH SMS	2/ PLATE	RESTRAINING PLATE FASTENER	-	-

LATCHES:

ITEMS 28A AND 30A USED FOR DOORS WITH STEEL REINFORCING ONLY
ITEMS 28 AND 30 USED FOR ALL OTHER DOORS.

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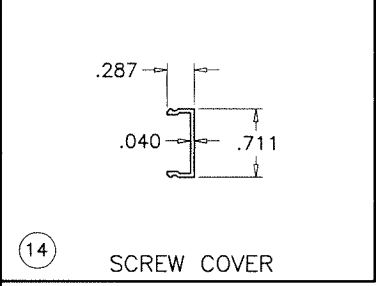
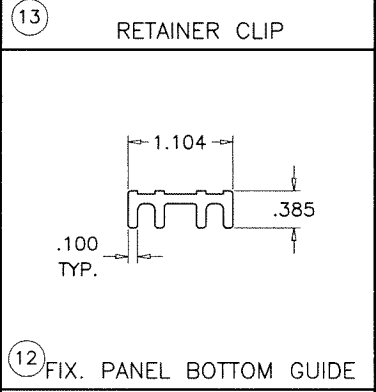
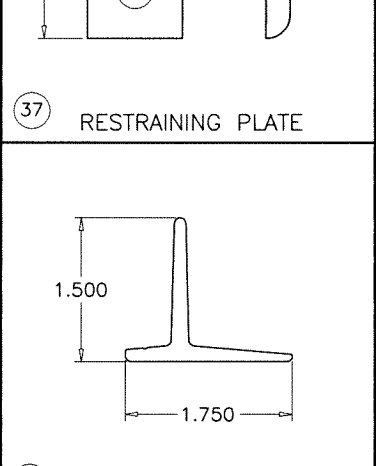
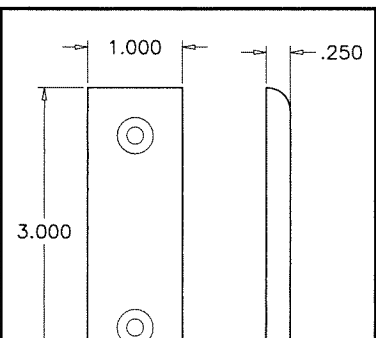
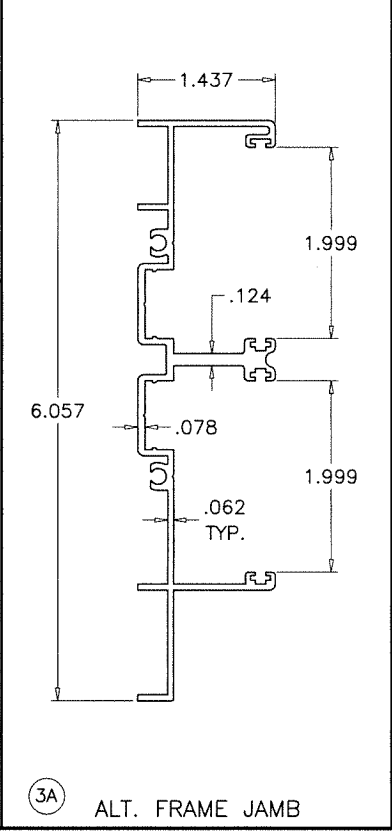
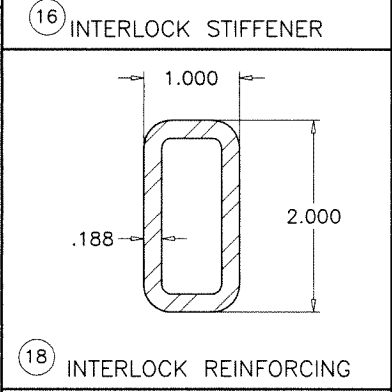
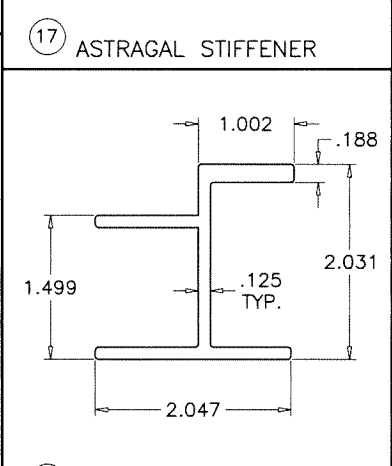
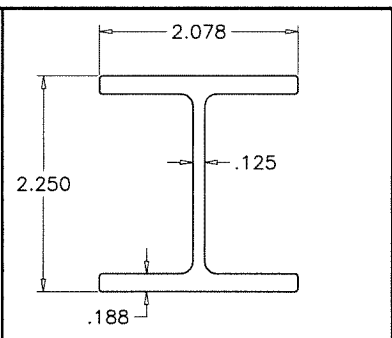
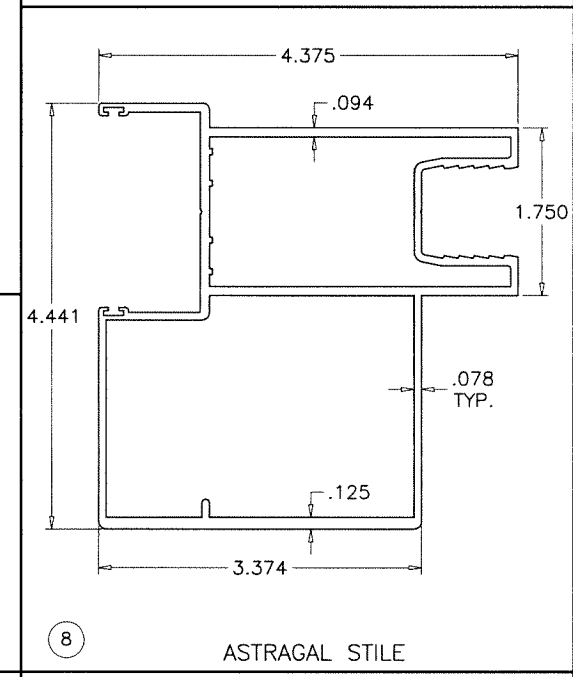
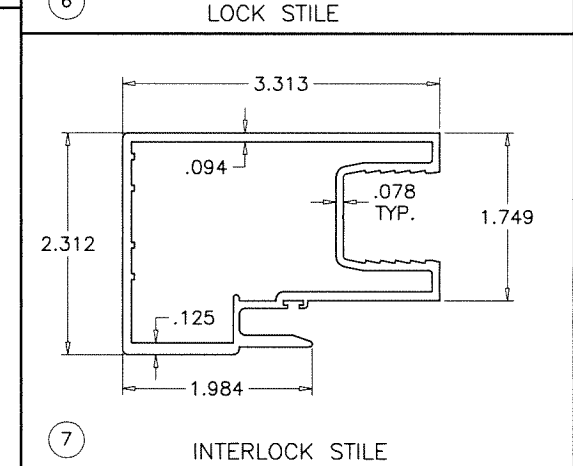
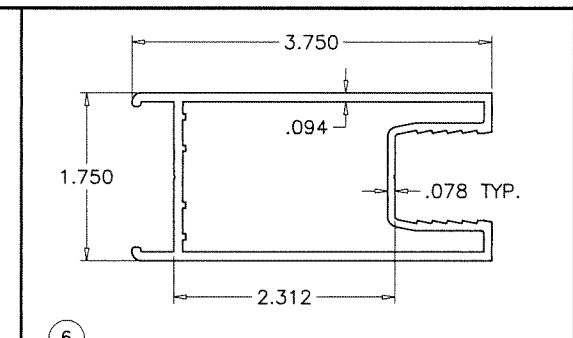
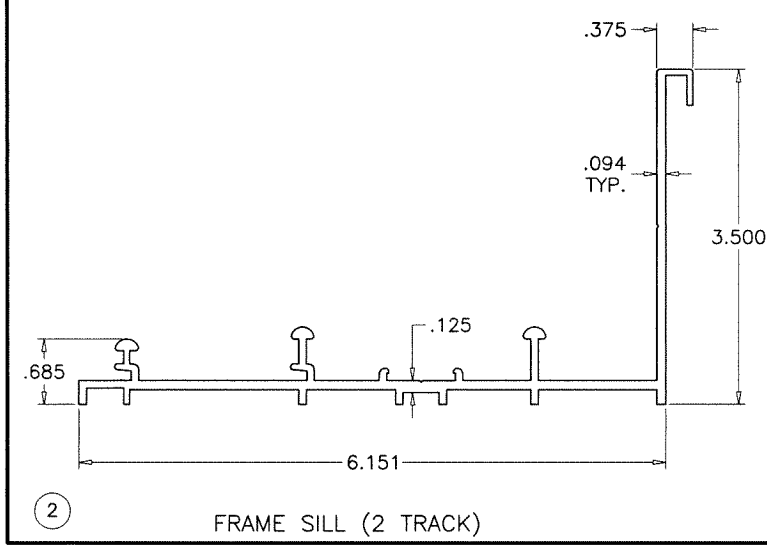
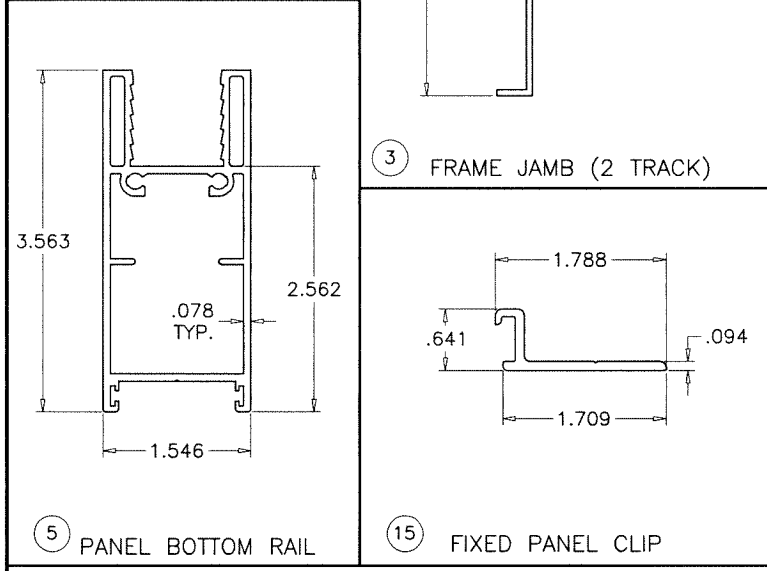
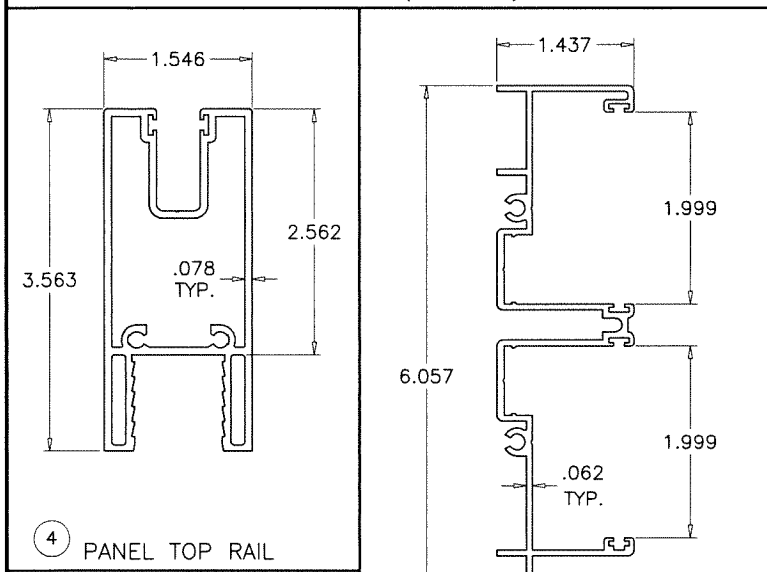
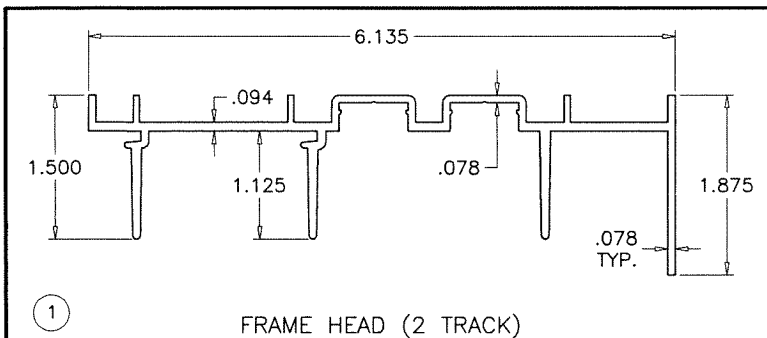
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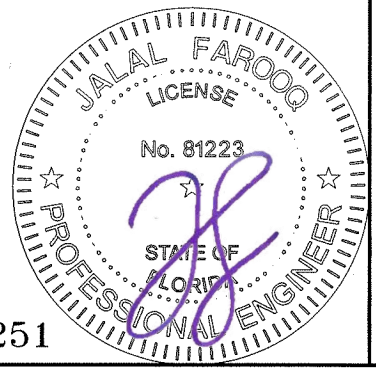
BASE POLYMER = EPDM RUBBER
 DENSITY = 10.26 Lbs/Gal
 HARDNESS = 70±5
 TENSILE STRENGTH = 905 PSI
 ELONGATION AT BREAK = 273%
 TEAR STRENGTH = 1.343 Kip/ft
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 27% (22h@158°F)

10 GLAZING GASKET
 SCALE 1:1

BASE POLYMER = SILICONE
 DENSITY = 10.26 Lbs/Gal
 HARDNESS = 70±5
 TENSILE STRENGTH = 905 PSI
 ELONGATION AT BREAK = 273%
 TEAR STRENGTH = 1.343 Kip/ft
 BRITTLENESS TEMPERATURE = -40° F
 COMPRESSION SET = 27% (22h@158°F)

10A GLAZING GASKET
 SCALE 1:1

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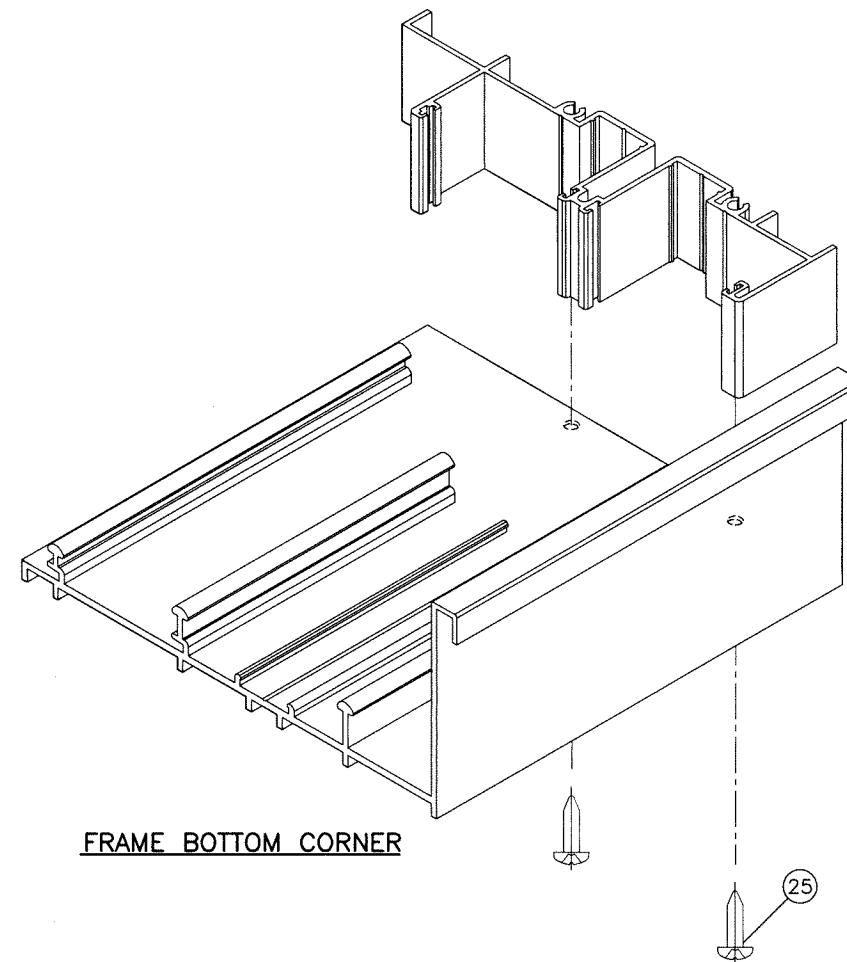
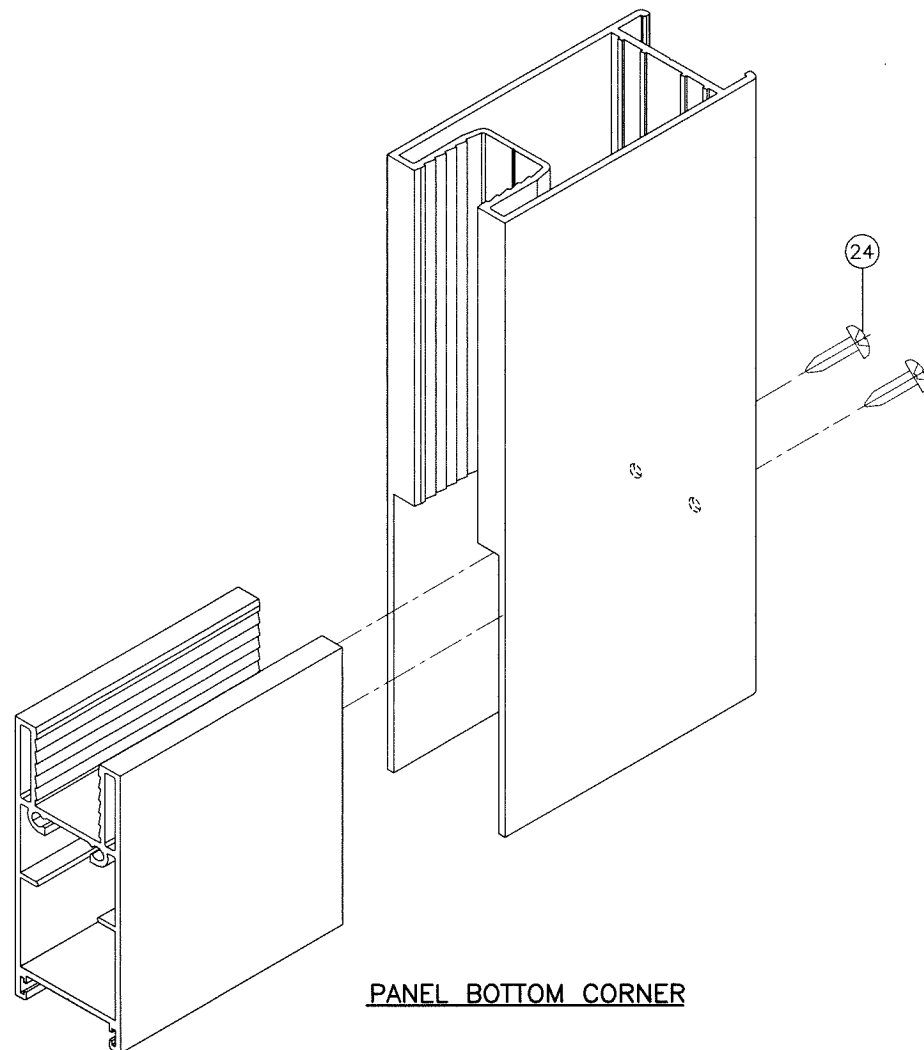
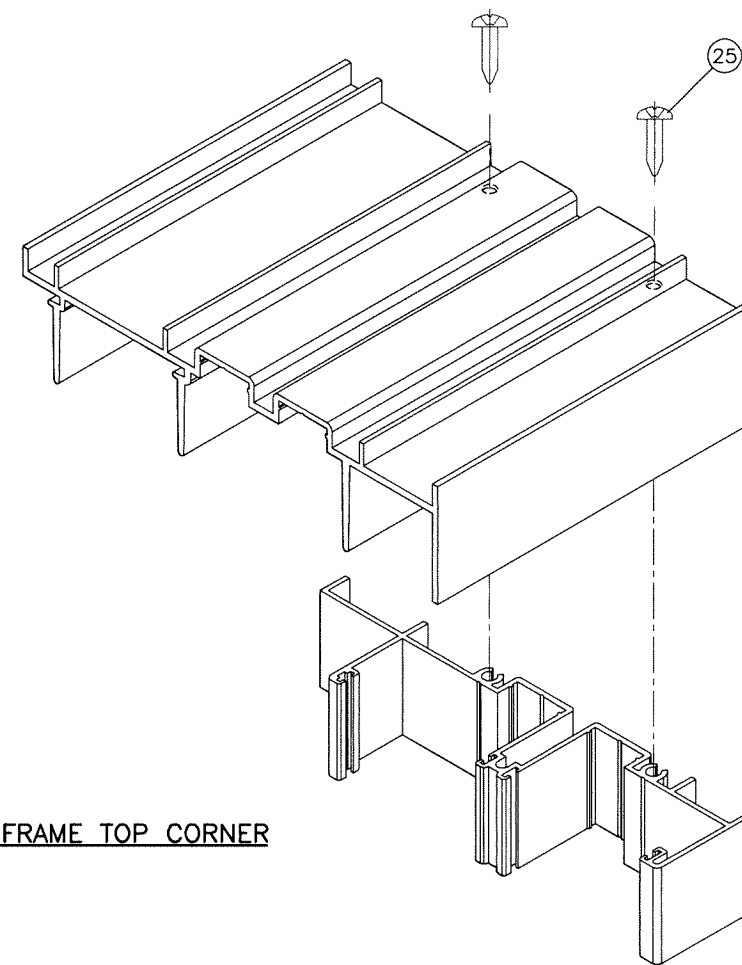
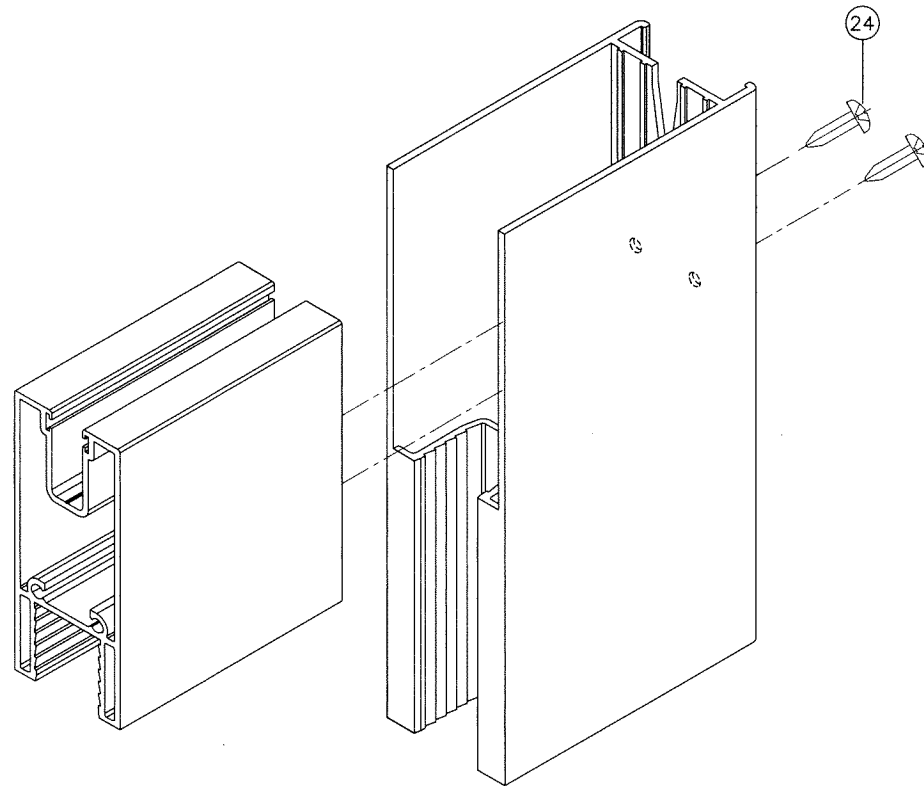
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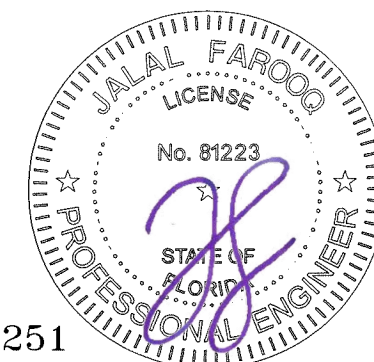
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