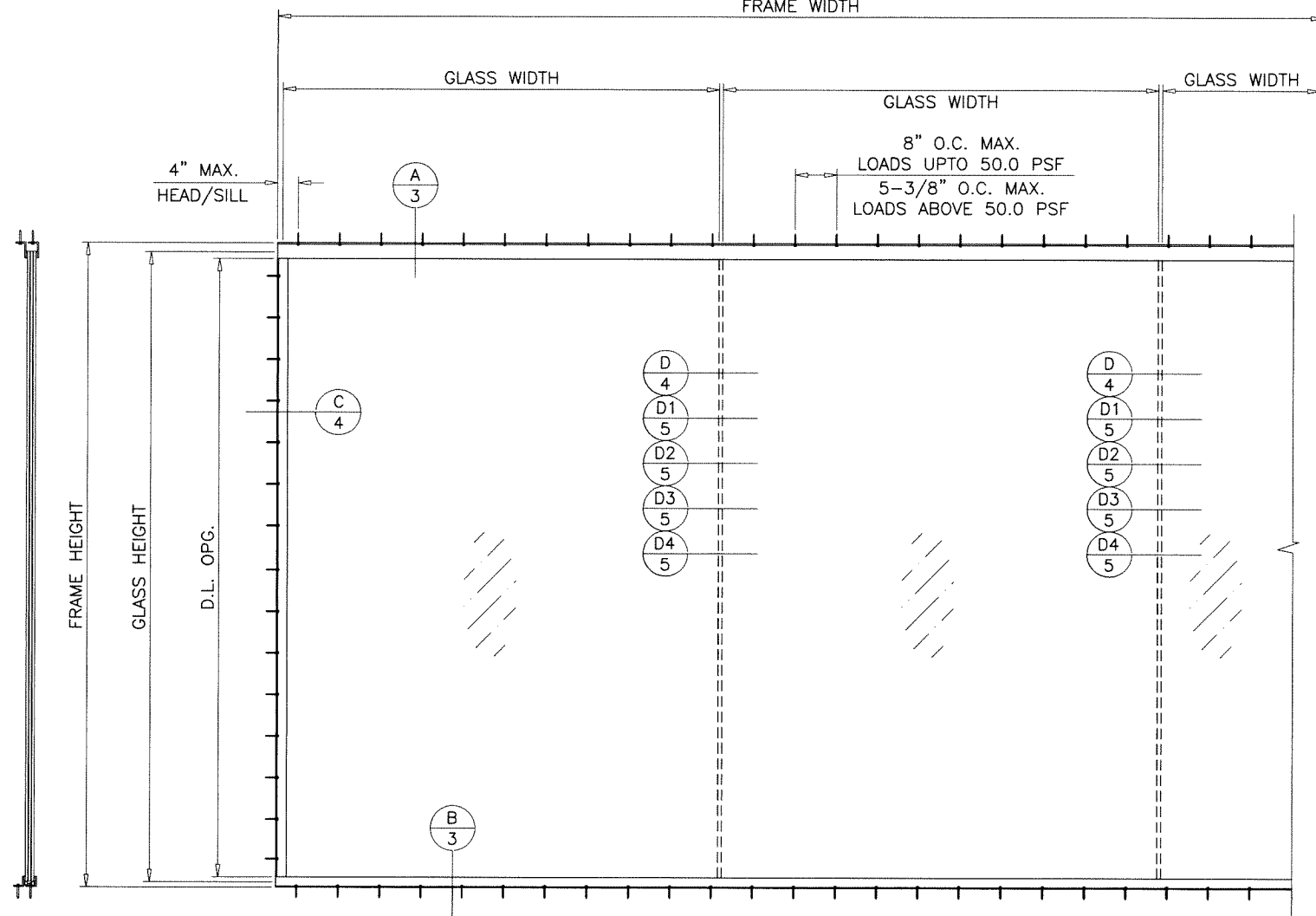
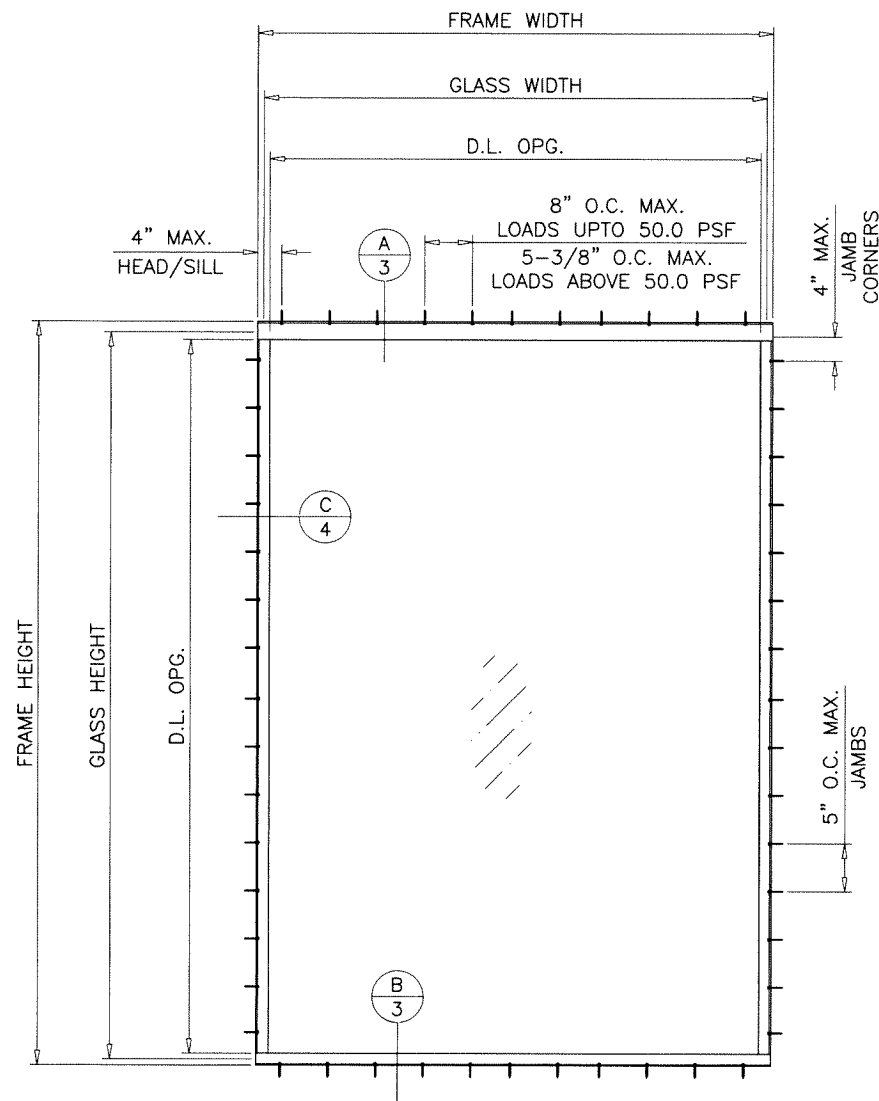




TYPICAL ELEVATIONS

FRAMELESS GLASS WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH 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 HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023 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.

APPROVAL APPLIES TO INSTALLATIONS OF SINGLE LITE UNITS OR MULTIPLE LITE UNITS WITH NO LIMIT ON QUANTITY OF PANELS OR TOTAL FRAME AREA. INDIVIDUAL GLASS PANEL AREA WILL BE LIMITED PER DIMENSIONS SHOWN ON SHEET 2.

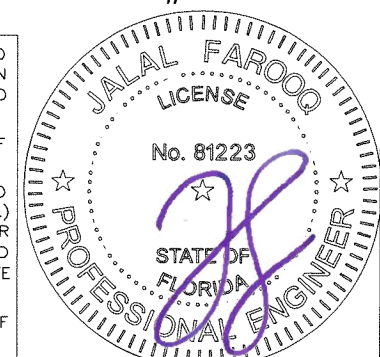
THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 8/9/2024

FL #46936

- 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.



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

F40 FRAMELESS FIXED GLAZING (L.M.I.)

TITONI WINDOWS

1113 N McKinley Ave.
Los Angeles, CA. 90059

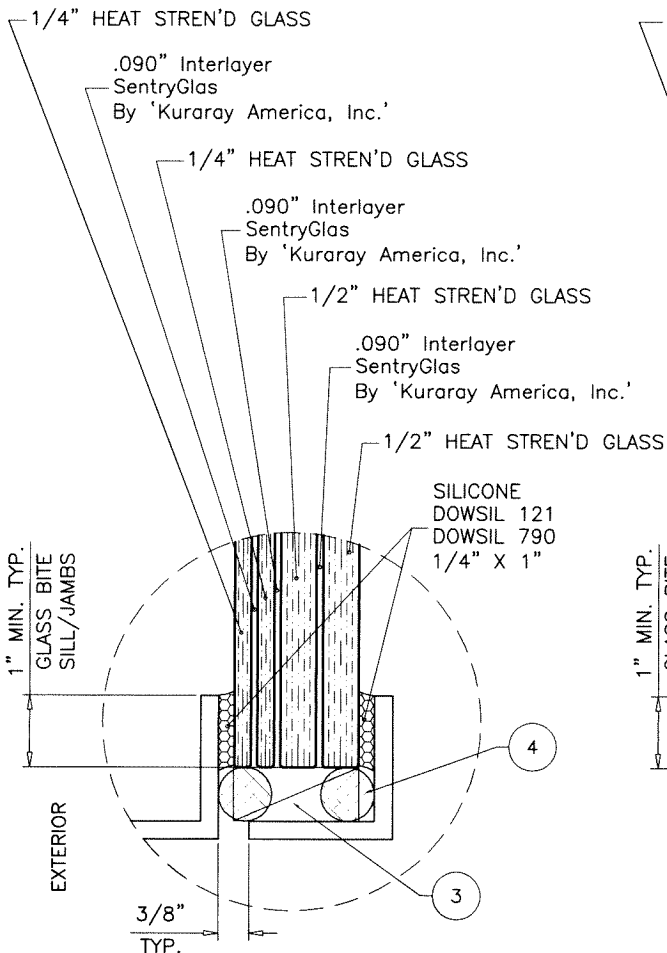
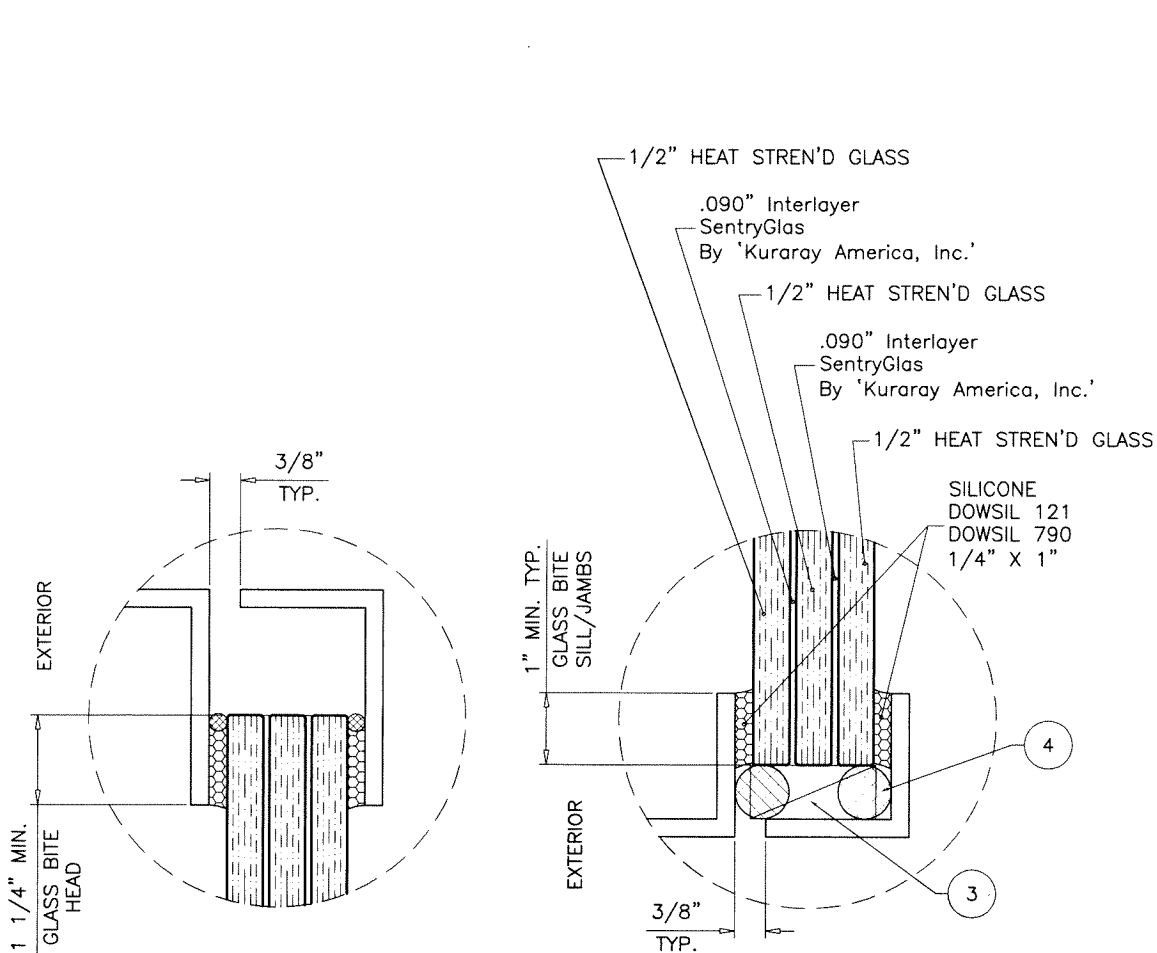
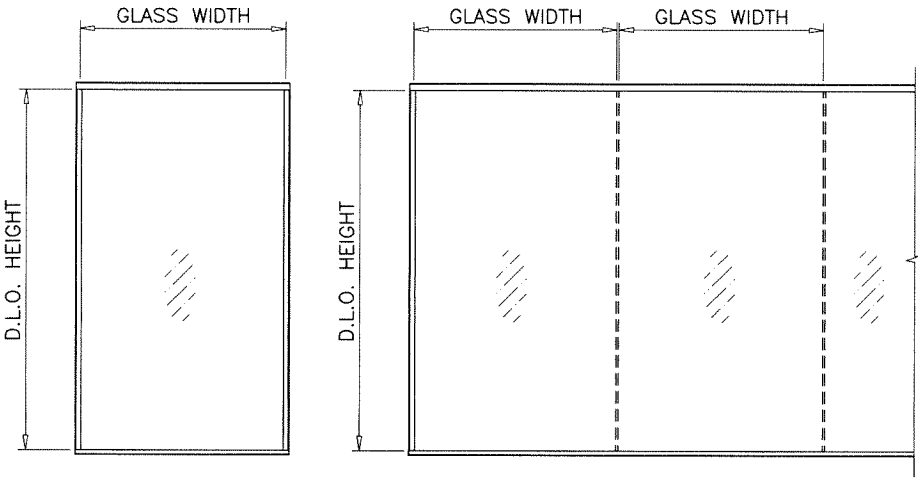
Tel: (310) 954-1516

www.titoniwindows.com

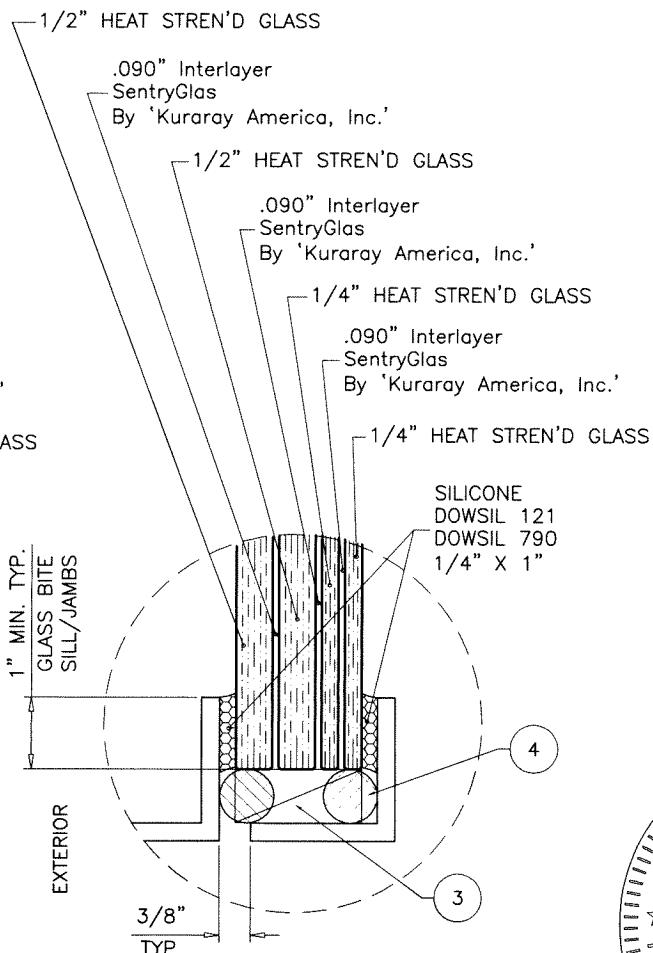
revisions:		no date by description	
date:	06-06-24	scale:	3/8"=1'-0"
dr. by:	TARIQ	chk. by:	
drawing no.	24-33F	sheet	1 of 5

COMP-ANL\24-33F-TW

DESIGN LOAD CAPACITY - PSF			
DIMS.		1-5/8" OVERALL LAM. GLASS	
GLASS WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
103-5/8"	171-3/4"	67.7	80.0
102-1/4"	174"	67.7	78.0
98-7/8"	180"	67.7	73.0
95-3/16"	187"	65.2	60.2

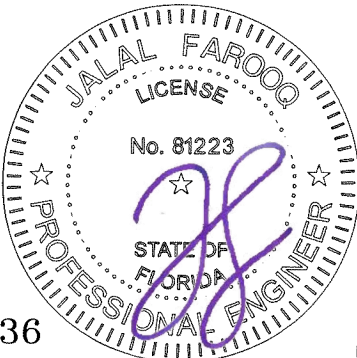


GLAZING DETAILS
1-5/8" OVERALL LAM. GLASS



Sealed: 8/9/2024

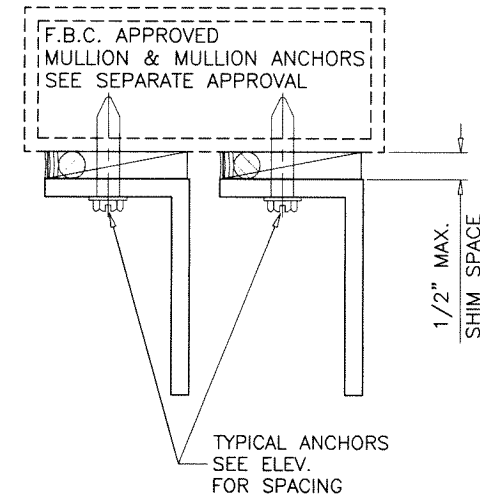
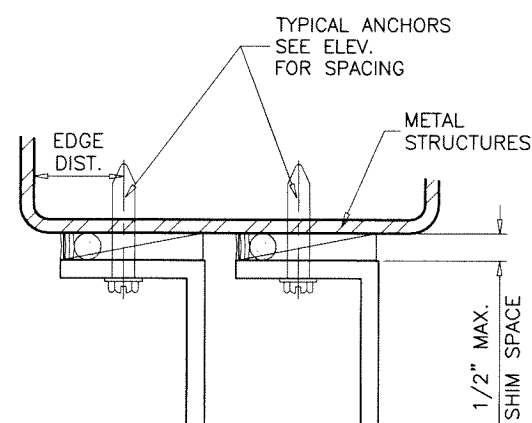
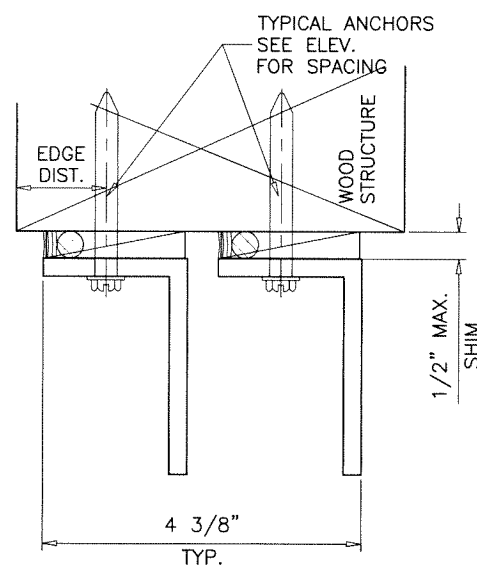
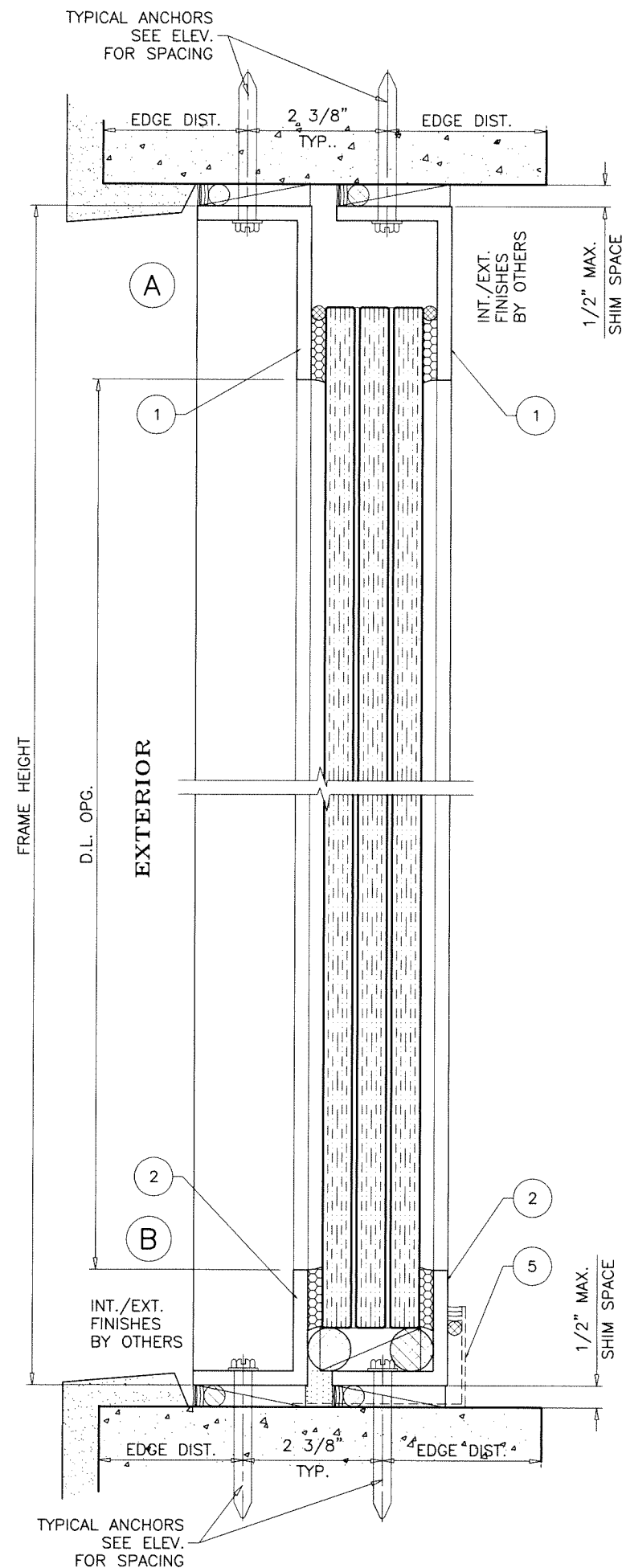
FL #46936



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)

F40 FRAMELESS FIXED GLAZING (L.M.I.)
TITONI WINDOWS
1113 N McKinley Ave.
Los Angeles, CA. 90059
Tel. (310) 954-1516
www.titoniwindows.com

revisions:	no	date	by	description
date:	06-06-24	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	24-33F			
sheet	2 of 5			



WOOD BUCKS AND METAL STRUCTURE NOT BY 'TITONI WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

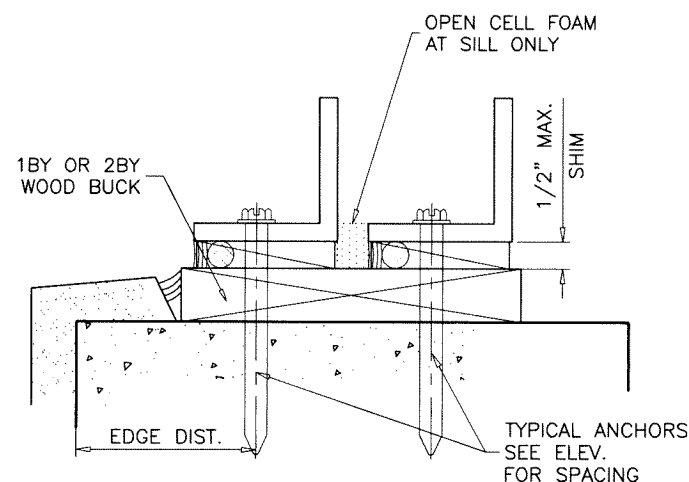
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- ANCHOR 'A'— 3/8" LAG SCREWS** (Fu=74 KSI)
 INTO WOOD STRUCTURES
 2-1/4" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
- ANCHOR 'B'— 3/8" SCREW BOLT+ BY 'DEWALT'** (Fy=84 KSI, Fu=105 KSI)
 THRU 1BY OR 2BY BUCKS INTO CONCRETE
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 DIRECTLY INTO CONCRETE
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
- ANCHOR 'C'— 3/8" DIA. TAP-FLEX OR SELF DRILLING SCREWS** (GRADE 5 CRS)
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE (FOR SELF DRILLING SCREWS)
 1/4" EMBEDMENT INTO SUBSTRATE (FOR MACHINE SCREWS)
 ALUMINUM: 1/4" THK. (6063-T5)
 STEEL: 1/4" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

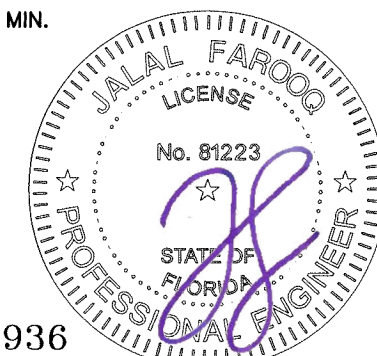
INTO CONC. OR BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL 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.



Sealed: 8/9/2024

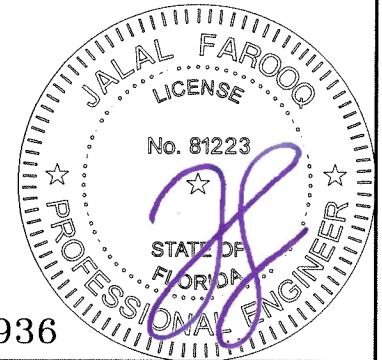
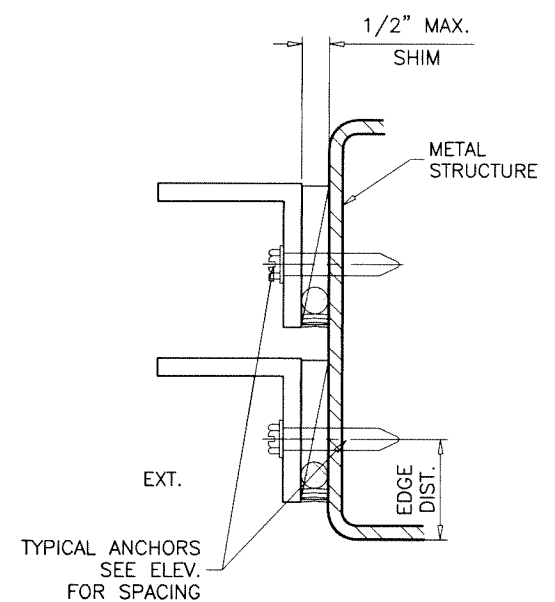
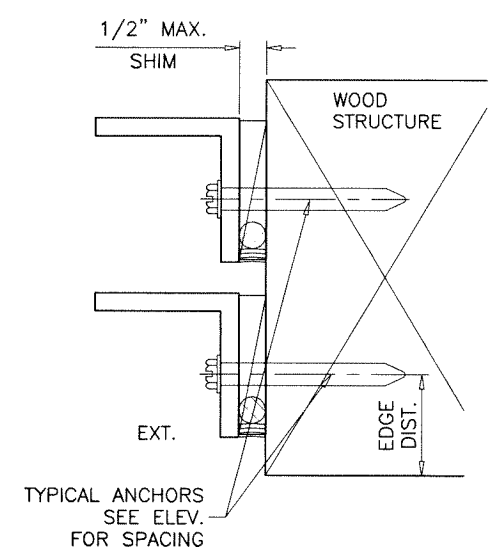
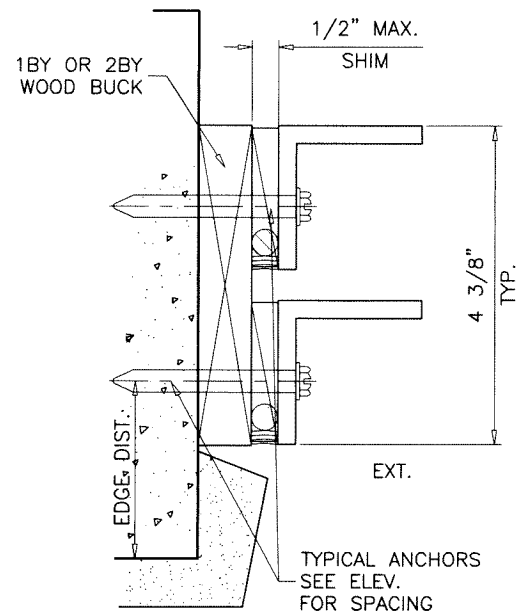
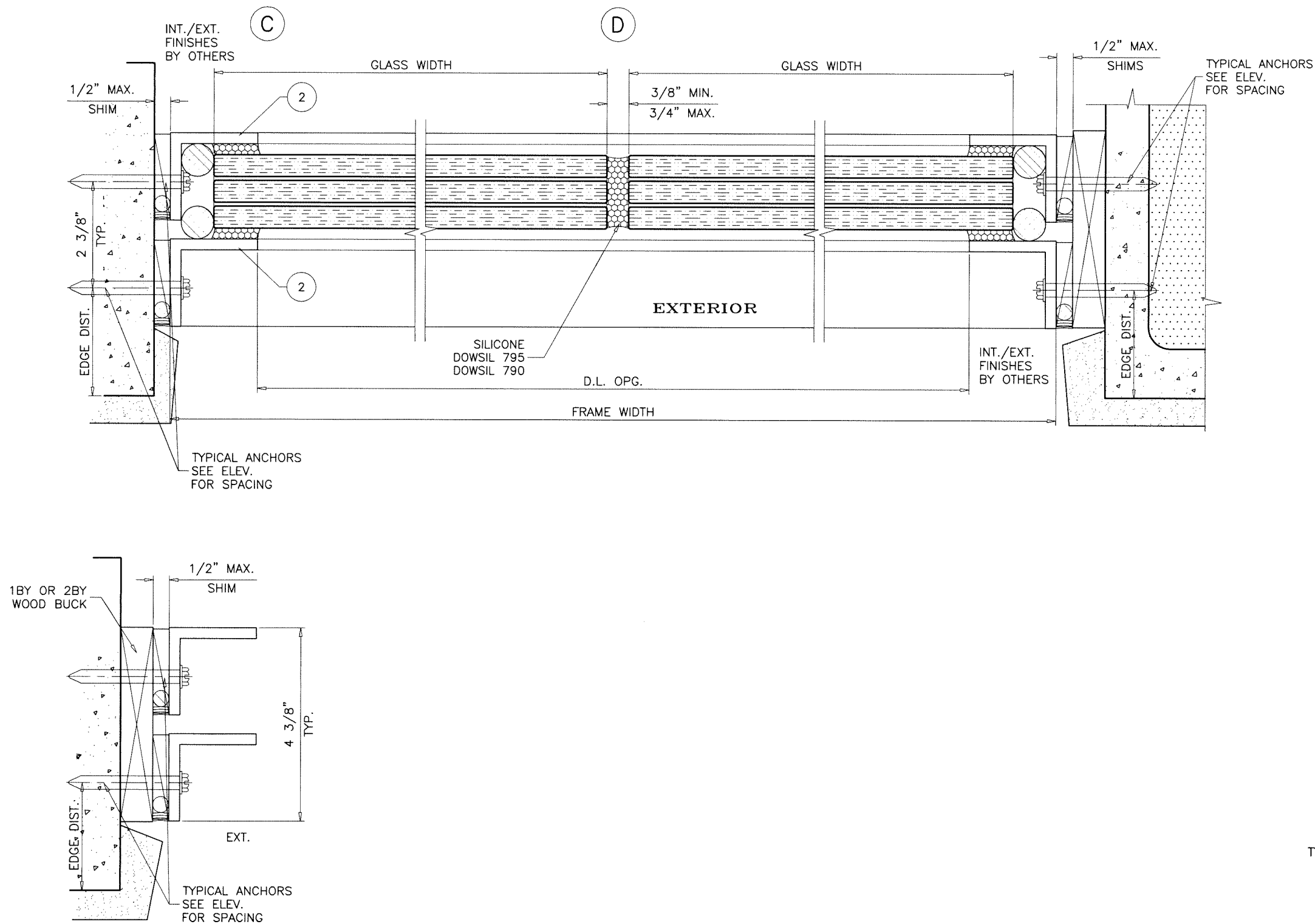
FL #46936



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\24-33F-TW

F40 FRAMELESS FIXED GLAZING (L.M.I.)
TITONI WINDOWS
 1113 N McKinley Ave.
 Los Angeles, CA. 90059
 Tel. (310) 954-1516 www.titoniwindows.com

revisions:		no date by description	
date:	06-06-24	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	24-33F		
sheet	3 of 5		



Sealed: 8/9/2024

FL #46936

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

COMP-ANL-24-33F-TW

F40 FRAMELESS FIXED GLAZING (L.M.I.)

TITONI WINDOWS
1113 N McKinley Ave.
Los Angeles, CA. 90059
Tel. (310) 954-1516 www.titoniwindows.com

revisions:	
no.	date by description

date: 06-06-24

scale: 3/8" = 1"

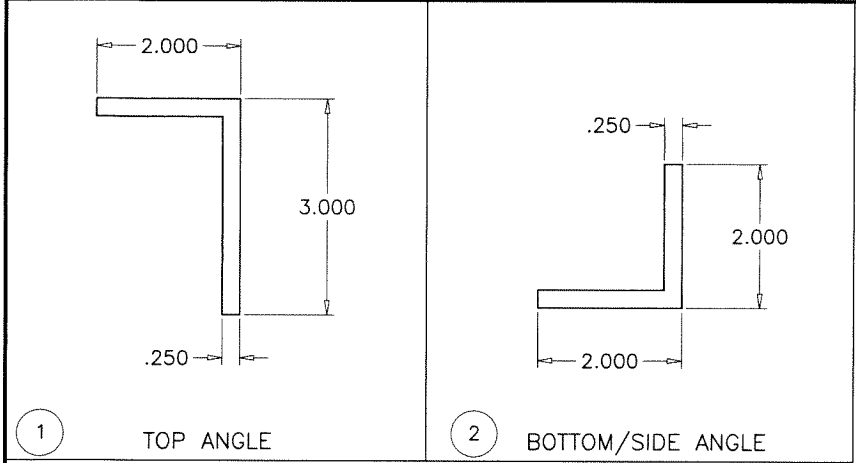
dr. by: TARIQ

chk. by:

drawing no.

24-33F

sheet 4 of 5



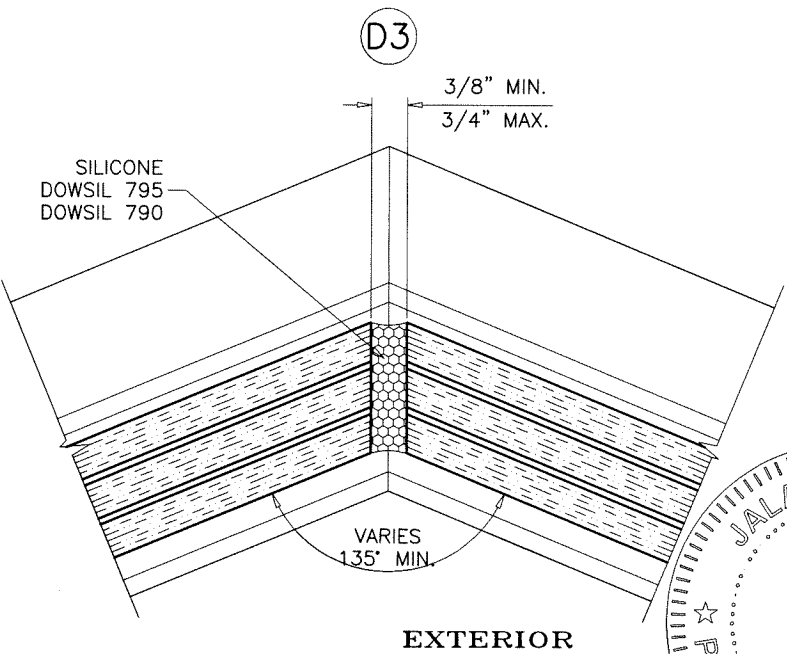
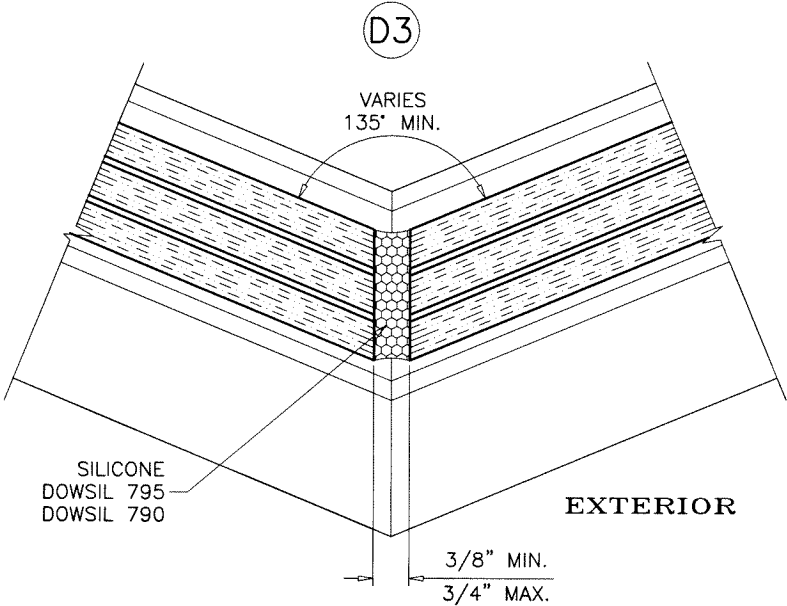
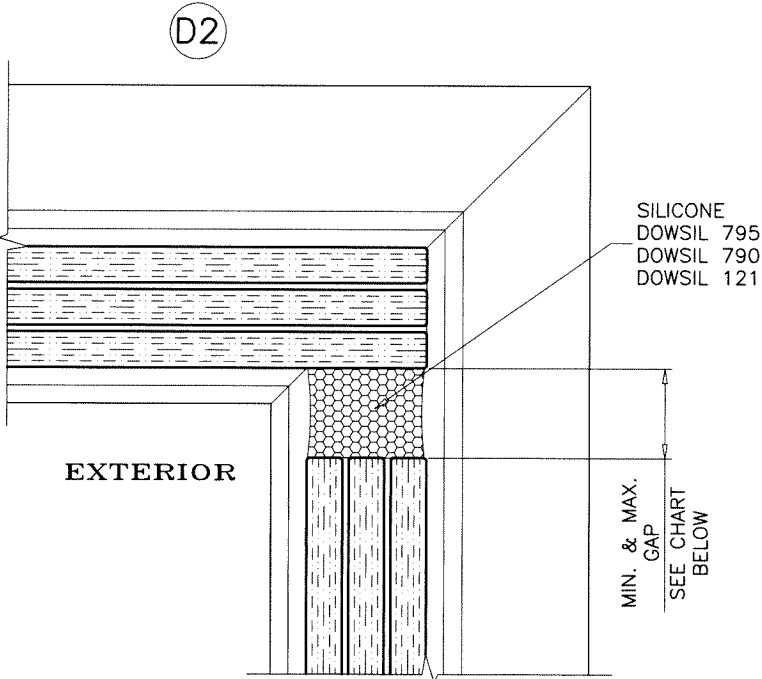
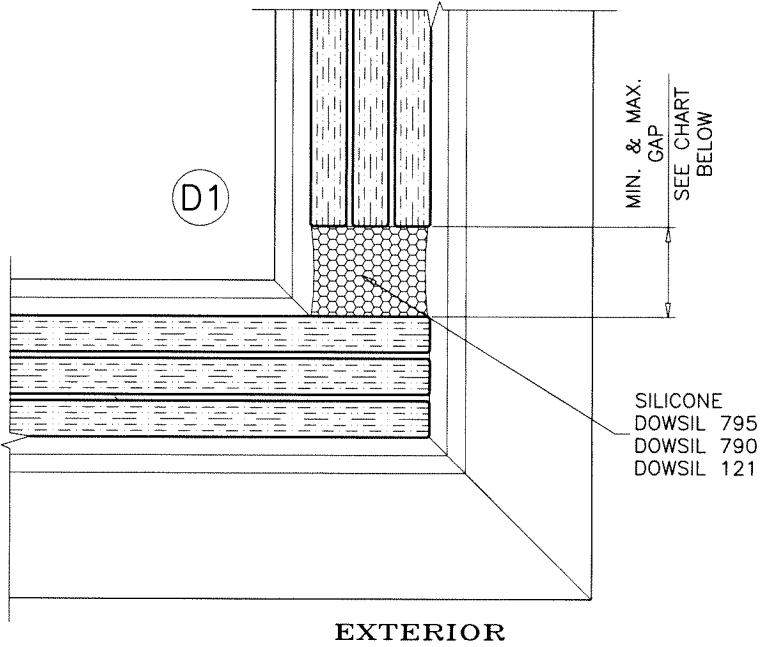
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	AS REQD.	TOP ANGLE	6063-T52	-
2	-	AS REQD.	BOTTOM/SIDE ANGLE	6063-T52	-
3	-	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
4	-	AS REQD.	3/4" DIA. BACKER ROD	FOAM	-
5	-	AS REQD.	.020" THK. SILL PAN (OPTIONAL)	ALUMINUM	-

SEALANT:

ALL FRAME JOINTS SQUARE-CUT AND BUTTED, JOINTS AND INSTALLATION FASTENERS SEALED WITH DOWSIL 795 SILICONE.

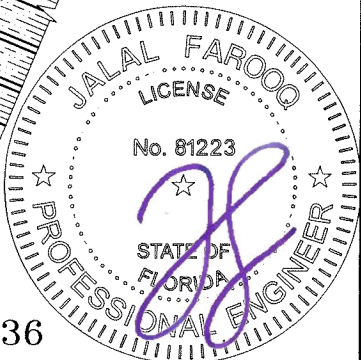
D.L.O. HEIGHT INCHES	DESIGN LOAD PSF	GAP					
		DOWSIL 795		DOWSIL 790		DOWSIL 121	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
187	65.2	-	-	15/16"	1-1/4"	-	-
	60.0	-	-	7/8"	1-1/4"	-	-
	50.0	1-1/8"	1-1/4"	3/4"	1-1/4"	-	-
180	73.0	-	-	7/8"	1-1/4"	-	-
	70.0	-	-	7/8"	1-1/4"	-	-
	60.0	1-1/8"	1-1/4"	3/4"	1-1/4"	-	-
	50.0	15/16"	1-1/4"	5/8"	1-1/4"	-	-
174	78.0	-	-	13/16"	1-1/4"	-	-
	70.0	1-1/8"	1-1/4"	3/4"	1-1/4"	-	-
	60.0	1"	1-1/4"	5/8"	1-1/4"	-	-
	50.0	13/16"	1-1/4"	9/16"	1-1/4"	-	-
171-3/4	80.0	-	-	13/16"	1-1/4"	-	-
	70.0	1-1/8"	1-1/4"	11/16"	1-1/4"	-	-
	60.0	15/16"	1-1/4"	5/8"	1-1/4"	-	-
	50.0	13/16"	1-1/4"	1/2"	1-1/4"	-	-
168	80.0	1-1/8"	1-1/4"	3/4"	1-1/4"	-	-
	70.0	1"	1-1/4"	11/16"	1-1/4"	-	-
	60.0	7/8"	1-1/4"	9/16"	1-1/4"	-	-
	50.0	3/4"	1-1/4"	1/2"	1-1/4"	1-1/16"	1-1/4"
156	80.0	7/8"	1-1/4"	9/16"	1-1/4"	-	-
	70.0	3/4"	1-1/4"	1/2"	1-1/4"	1-1/8"	1-1/4"
	60.0	5/8"	1-1/4"	7/16"	1-1/4"	15/16"	1-1/4"
	50.0	9/16"	1-1/4"	3/8"	1-1/4"	13/16"	1-1/4"
144	80.0	5/8"	1-1/4"	7/16"	1-1/4"	15/16"	1-1/4"
	70.0	9/16"	1-1/4"	3/8"	1-1/4"	13/16"	1-1/4"
	60.0	1/2"	1-1/4"	5/16"	1-1/4"	11/16"	1-1/4"
	50.0	7/16"	1-1/4"	1/4"	1-1/4"	9/16"	1-1/4"

NOTE:
MAX. MOVEMENT CONSIDERED=50% STRETCH FOR DOWSIL 795.
MAX. MOVEMENT CONSIDERED=100% STRETCH FOR DOWSIL 790.
MAX. MOVEMENT CONSIDERED=25% STRETCH FOR DOWSIL 121.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.



Sealed: 8/9/2024

FL #46936



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\24-33F-TW

F40 FRAMELESS FIXED GLAZING (L.M.I.)

TITONI WINDOWS

1113 N McKinley Ave.
Los Angeles, CA. 90059
Tel. (310) 954-1516
www.titoniwindows.com

revisions:		no date by description	
date:	06-06-24	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	24-33F	sheet	5 of 5