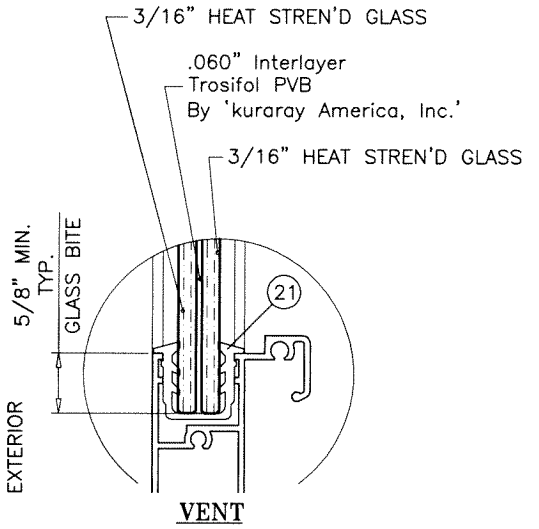
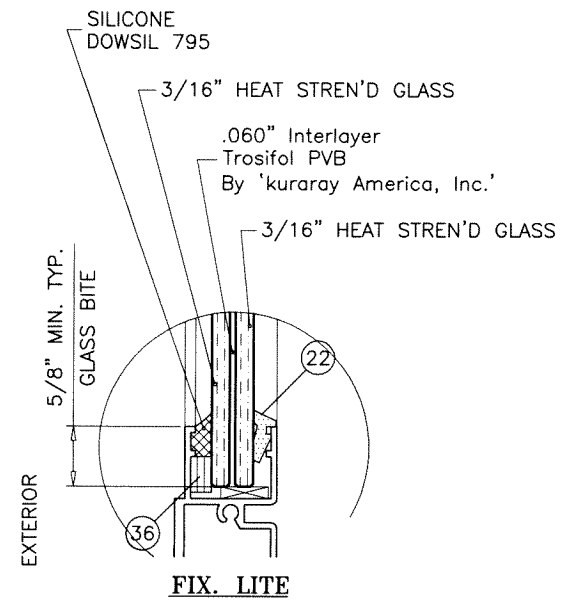
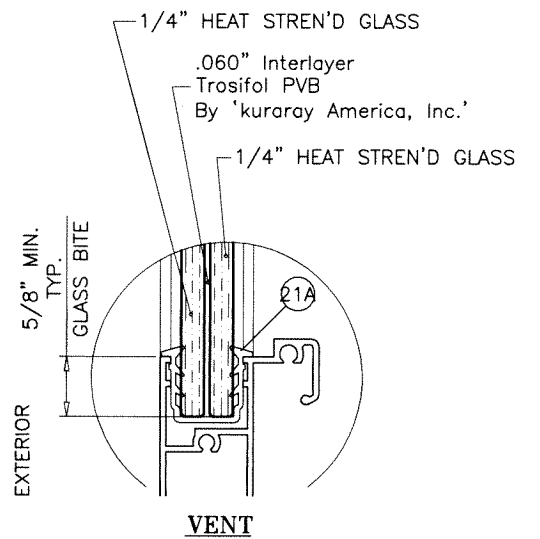
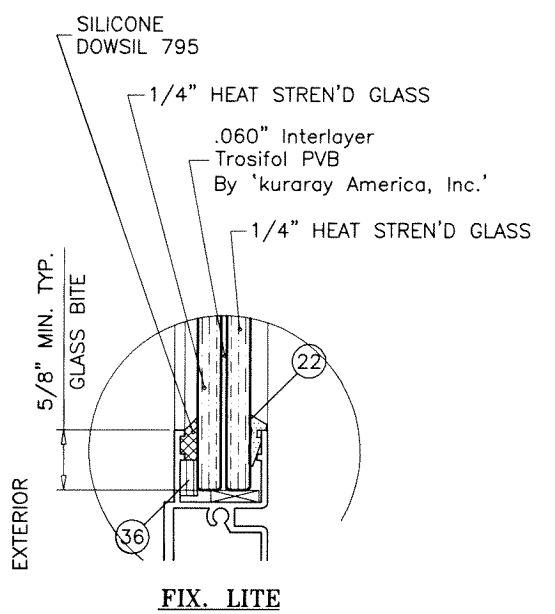


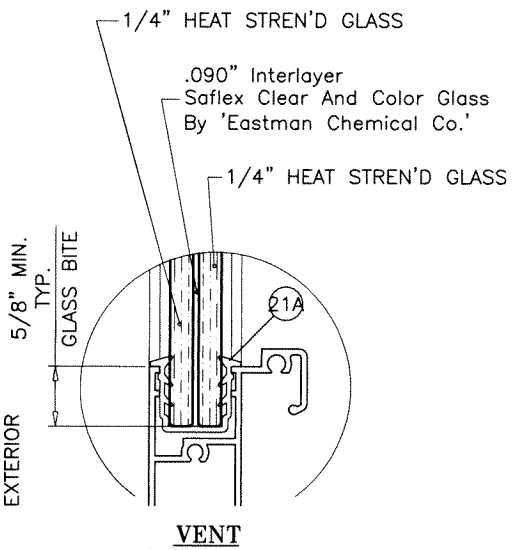
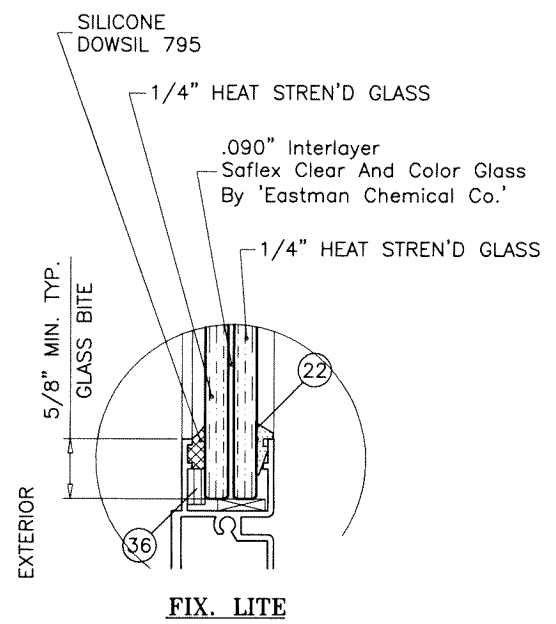
sheet 1 of 10



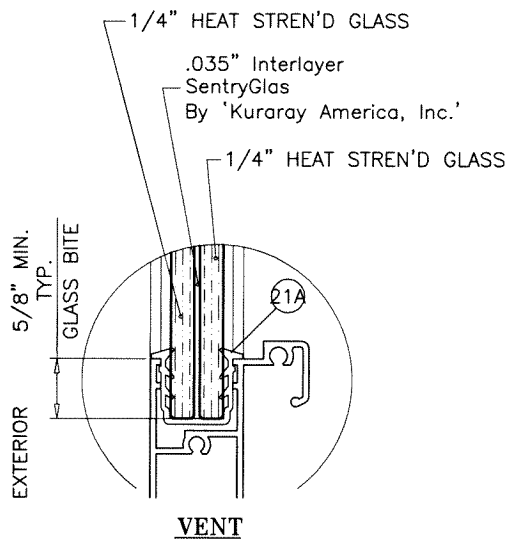
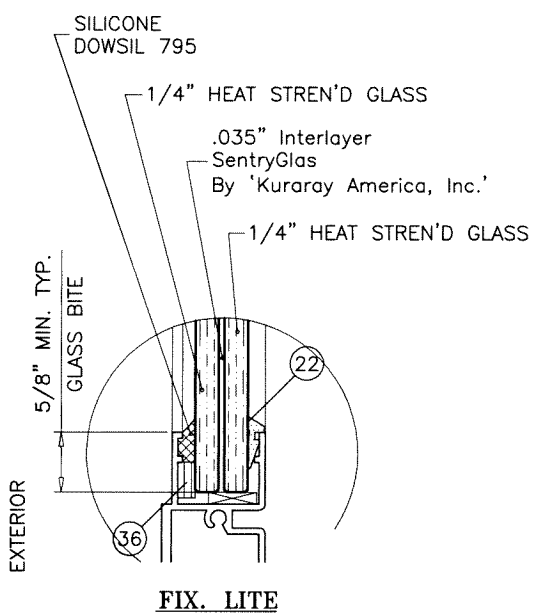
GLASS TYPE 'A'



GLASS TYPE 'B'

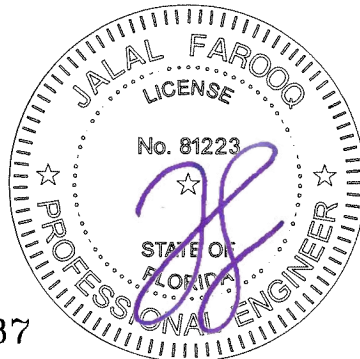


GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS



Sealed: 2/29/2024

FL #46587

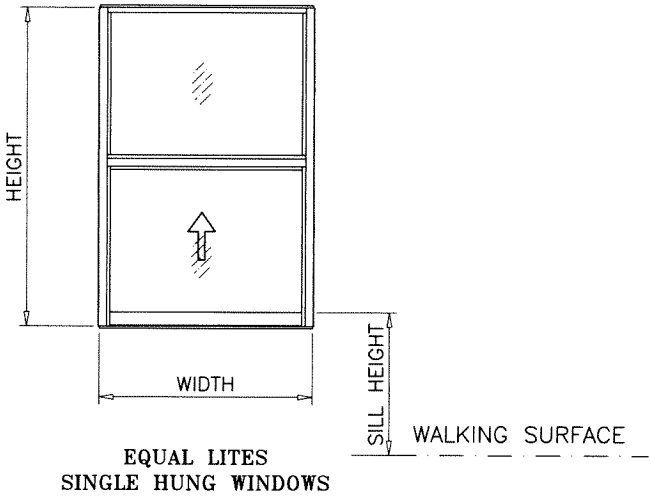
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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FAX (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

COMP-ANL\24-07F-TG

SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)																					
TECNOGLASS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158																					
Revisions: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																	date: 02-20-24 scale: 1/2" = 1" dr. by: TARIQ chk. by:
no	date	by	description																		
drawing no. 24-07F																					
sheet 2 of 10																					

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		3/8" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
36"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		89.7	116.6	89.7	116.6	89.7	116.6	83.3	108.3
66"		67.0	87.1	67.0	87.1	67.0	87.1	62.2	80.9
72"		51.3	66.7	51.3	66.7	51.3	66.7	47.7	62.0
36"	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		77.9	101.3	77.9	101.3	77.9	101.3	72.4	94.1
66"		58.0	75.4	58.0	75.4	58.0	75.4	53.9	70.1
72"		44.4	57.7	44.4	57.7	44.4	57.7	41.2	53.6
36"	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		96.5	125.5	96.5	125.5	96.5	125.5	89.6	116.5
60"		69.2	90.0	69.2	90.0	69.2	90.0	64.3	83.6
66"		51.4	66.9	51.4	66.9	51.4	66.9	47.8	62.1
72"		39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
36"	54"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		87.7	114.0	87.7	114.0	87.7	114.0	81.5	105.9
60"		62.7	81.5	62.7	81.5	62.7	81.5	58.2	75.7
66"		46.4	60.3	46.4	60.3	46.4	60.3	-	-
72"		35.3	45.9	35.3	45.9	-	-	-	-
36"	60"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		81.0	105.3	81.0	105.3	81.0	105.3	75.2	97.8
60"		57.6	74.8	57.6	74.8	57.6	74.8	-	-
66"		42.4	55.2	42.4	55.2	-	-	-	-
36"	66"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	148.3	100.0	148.3	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	133.7	100.0	130.0
54"		75.8	98.5	75.8	98.5	75.8	98.5	-	-
60"		53.5	69.6	53.5	69.6	-	-	-	-
72"		-	-	-	-	-	-	-	-
36"	72"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	144.0	100.0	144.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	129.4	100.0	130.0
54"		71.7	93.2	71.7	93.2	-	-	-	-

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		3/8" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
36"	78"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	149.2	100.0	149.2	100.0	130.0
43-1/4"		100.0	130.0	100.0	141.4	100.0	141.4	100.0	130.0
48"		100.0	130.0	100.0	130.0	-	-	100.0	129.4
54"		68.5	89.1	68.5	89.1	-	-	-	-
36"	84"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	148.5	100.0	148.5	100.0	130.0
43-1/4"		100.0	125.1	100.0	140.1	100.0	140.1	-	-
48"		100.0	125.1	100.0	125.1	-	-	-	-
36"	86"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	148.5	100.0	148.5	100.0	130.0
43-1/4"		100.0	124.7	100.0	140.0	100.0	140.0	-	-
48"		-	-	-	-	-	-	-	-
36"	89-1/4"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0
48"		100.0	124.7	100.0	124.7	-	-	-	-
36"	90"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0
36"	96"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0

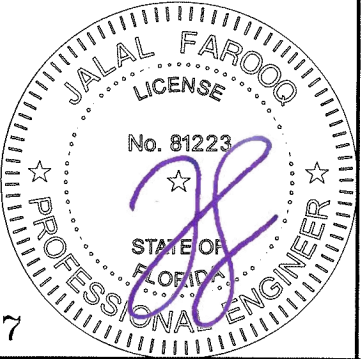


EQUAL LITES
SINGLE HUNG WINDOWS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 2/29/2024

FL #46587



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL 24-07F-TG

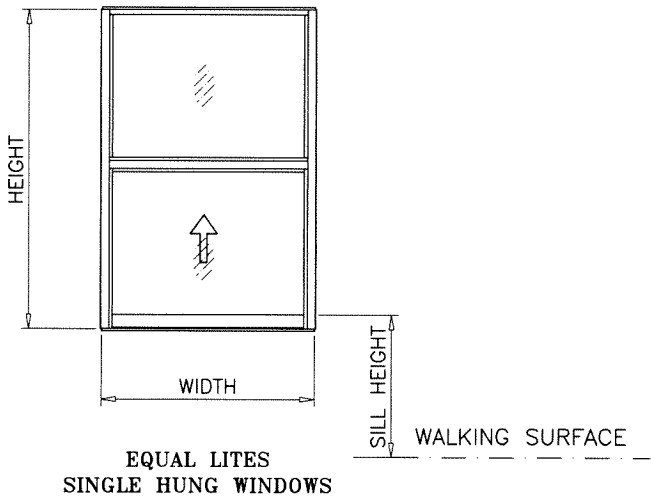
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no	date	by	description
date:	02-20-24			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	24-07F			
sheet	3 of 10			

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
36"	36"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		89.7	116.6	89.7	116.6	89.7	116.6	83.3	108.3
66"		67.0	87.1	67.0	87.1	67.0	87.1	62.2	80.9
72"		51.3	66.7	51.3	66.7	51.3	66.7	47.7	62.0
36"	42"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
60"		77.9	101.3	77.9	101.3	77.9	101.3	72.4	94.1
66"		58.0	75.4	58.0	75.4	58.0	75.4	53.9	70.1
72"		44.4	57.7	44.4	57.7	44.4	57.7	41.2	53.6
36"	48"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		96.5	125.5	96.5	125.5	96.5	125.5	89.6	116.5
60"		69.2	90.0	69.2	90.0	69.2	90.0	64.3	83.6
66"		51.4	66.9	51.4	66.9	51.4	66.9	47.8	62.1
72"		39.3	51.1	39.3	51.1	39.3	51.1	36.5	47.4
36"	54"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		87.7	114.0	87.7	114.0	87.7	114.0	81.5	105.9
60"		62.7	81.5	62.7	81.5	62.7	81.5	58.2	75.7
66"		46.4	60.3	46.4	60.3	46.4	60.3	-	-
36"	60"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	140.0	100.0	130.0
54"		81.0	105.3	81.0	105.3	81.0	105.3	75.2	97.8
60"		57.6	74.8	57.6	74.8	57.6	74.8	38.2	49.7
36"	66"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	148.3	100.0	148.3	100.0	130.0
48"		100.0	130.0	100.0	130.0	100.0	133.7	100.0	130.0
54"		75.8	98.5	75.8	98.5	75.8	98.5	50.3	65.4
36"	72"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	144.0	100.0	144.0	100.0	130.0
48"		100.0	118.5	100.0	118.5	100.0	118.5	100.0	118.5

EQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
36"	78"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	141.4	100.0	141.4	100.0	130.0
43-1/4"		100.0	130.0	100.0	138.5	100.0	138.5	100.0	130.0
36"	84"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	142.4	100.0	142.4	100.0	130.0
43-1/4"		100.0	130.0	100.0	139.6	100.0	139.6	100.0	130.0
36"	86"	100.0	130.0	100.0	150.0	100.0	150.0	100.0	130.0
42"		100.0	130.0	100.0	138.0	100.0	138.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	135.3	100.0	135.3	100.0	130.0
36"	89-1/4"	100.0	130.0	100.0	147.0	100.0	147.0	100.0	130.0
36"	90"	100.0	130.0	100.0	145.3	100.0	145.3	100.0	130.0
36"	96"	100.0	130.0	100.0	147.6	100.0	147.6	100.0	130.0

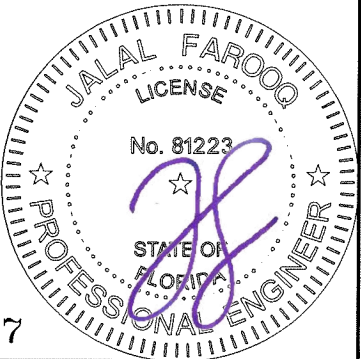


EQUAL LITES
SINGLE HUNG WINDOWS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 2/29/2024

FL #46587



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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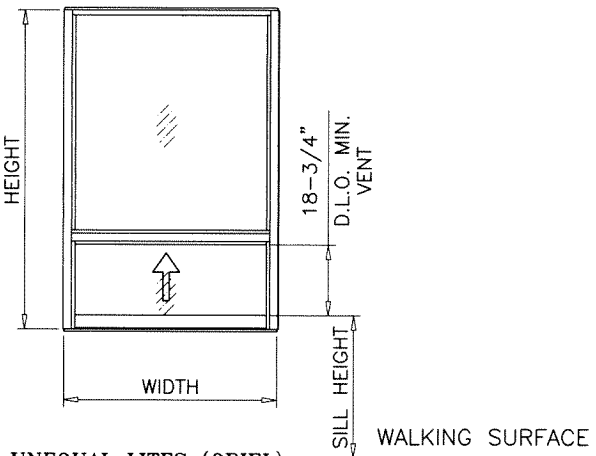
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)

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

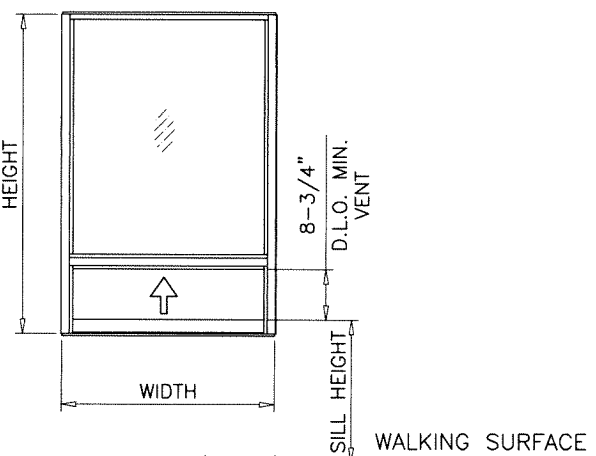
revisions:		no		date		by		description	
date:	02-20-24	scale:	-	dr. by:	TARIQ	chk. by:		drawing no.	24-07F
								sheet 3.1 of 10	

COMP-ANL\24-07F-TG

UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF																	
WINDOW DIMS.		3/8" MAX. SHIMS								1/4" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	43-1/4"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
54"		100.0	130.0	100.0	130.6	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.6	106.7	140.0	100.0	130.0
60"		81.9	110.5	81.9	110.5	81.9	110.5	93.7	121.8	81.9	110.5	81.9	110.5	81.9	110.5	93.7	121.8
66"		58.7	79.3	58.7	79.3	58.7	79.3	66.7	86.7	58.7	79.3	58.7	79.3	58.7	79.3	66.7	86.7
72"		43.6	58.9	43.6	58.9	43.6	58.9	49.2	64.0	43.6	58.9	43.6	58.9	43.6	58.9	49.2	64.0
36"	43-1/4"	33.3	45.0	33.3	45.0	33.3	45.0	37.4	48.6	33.3	45.0	33.3	45.0	33.3	45.0	37.4	48.6
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
60"		100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
66"		74.9	101.1	74.9	101.1	74.9	101.1	87.9	114.3	74.9	101.1	74.9	101.1	74.9	101.1	87.9	114.3
72"		53.4	72.1	53.4	72.1	53.4	72.1	61.9	80.4	53.4	72.1	53.4	72.1	53.4	72.1	61.9	80.4
36"	43-1/4"	39.5	53.3	39.5	53.3	39.5	53.3	-	-	39.5	53.3	39.5	53.3	39.5	53.3	-	-
42"		30.1	40.6	30.1	40.6	-	-	-	-	30.1	40.6	30.1	40.6	-	-	-	-
48"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
60"		100.0	130.0	100.0	150.0	103.1	150.0	100.0	130.0	100.0	130.0	100.0	150.0	103.1	150.0	100.0	130.0
66"		100.0	130.0	100.0	130.0	103.1	139.2	100.0	130.0	100.0	130.0	100.0	130.0	103.1	139.2	100.0	130.0
72"		70.1	94.7	70.1	94.7	70.1	94.7	84.4	109.7	70.1	94.7	70.1	94.7	70.1	94.7	84.4	109.7
36"	43-1/4"	49.6	67.0	49.6	67.0	49.6	67.0	-	-	49.6	67.0	49.6	67.0	49.6	67.0	-	-
42"		36.5	49.3	36.5	49.3	-	-	-	-	36.5	49.3	36.5	49.3	-	-	-	-
48"		27.7	37.3	27.7	37.3	-	-	-	-	27.7	37.3	27.7	37.3	-	-	-	-
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
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66"		100.0	130.0	100.0	150.0	100.6	150.0	100.0	130.0	100.0	130.0	100.0	150.0	100.6	150.0	100.0	130.0
72"		100.0	130.0	100.0	130.0	100.6	135.9	100.0	130.0	100.0	130.0	100.0	130.0	100.6	135.9	100.0	130.0
36"	43-1/4"	67.1	90.5	67.1	90.5	67.1	90.5	-	-	67.1	90.5	67.1	90.5	67.1	90.5	-	-
42"		47.0	63.5	47.0	63.5	-	-	-	-	47.0	63.5	47.0	63.5	-	-	-	-
48"		34.3	46.3	34.3	46.3	-	-	-	-	34.3	46.3	34.3	46.3	-	-	-	-
54"		25.9	34.9	25.9	34.9	-	-	-	-	25.9	34.9	25.9	34.9	-	-	-	-
60"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
66"		100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
72"		100.0	130.0	100.0	130.0	100.0	135.0	100.0	130.0	100.0	130.0	100.0	130.0	100.0	135.0	100.0	130.0
36"	43-1/4"	65.4	88.2	65.4	88.2	-	-	-	-	65.4	88.2	65.4	88.2	-	-	-	-
42"		45.3	61.1	45.3	61.1	-	-	-	-	45.3	61.1	45.3	61.1	-	-	-	-
48"		32.8	44.2	32.8	44.2	-	-	-	-	32.8	44.2	32.8	44.2	-	-	-	-
54"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
60"		100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
36"	43-1/4"	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
48"		100.0	128.4	100.0	128.4	100.0	128.4	-	-	100.0	130.0	100.0	130.0	100.0	135.0	-	-
54"		64.9	87.6	64.9	87.6	-	-	-	-	64.9	87.6	64.9	87.6	-	-	-	-
60"		44.3	59.8	44.3	59.8	-	-	-	-	44.3	59.8	44.3	59.8	-	-	-	-
36"	43-1/4"	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	-	-	-	-	100.0	130.0	100.0	130.0	-	-	-	-
54"		64.9	87.6	64.9	87.6	-	-	-	-	64.9	87.6	64.9	87.6	-	-	-	-
36"	43-1/4"	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	129.1	100.0	130.0	100.0	130.0	-	-	100.0	130.0
48"		100.0	120.8	100.0	120.8	-	-	-	-	100.0	130.0	100.0	130.0	-	-	-	-
36"	43-1/4"	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	127.8	100.0	130.0	100.0	130.0	-	-	100.0	130.0
48"		100.0	119.5	100.0	119.5	-	-	-	-	100.0	130.0	100.0	130.0	-	-	-	-
36"	43-1/4"	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0	100.0	130.0	100.0	130.0	106.7	140.0	100.0	130.0
42"		100.0	130.0	100.0	130.0	-	-	100.0	130.0	100.0	130.0	100.0	130.0	-	-	100.0	130.0
48"		100.0	130.0	100.0	130.0	-	-	-	-	100.0	130.0	100.0	130.0	-	-	-	-



UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPES A, B & C)

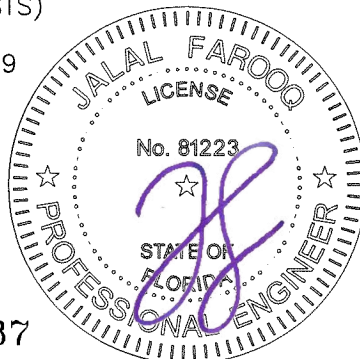


UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPE D)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 2/29/2024

FL #46587

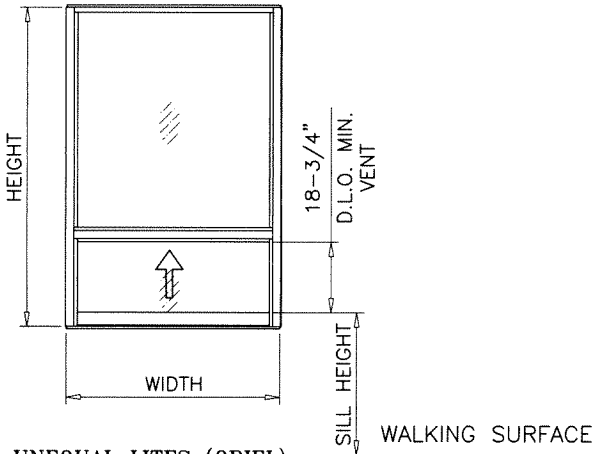


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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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TEL. (305) 264-8100
WWW.AFCENG.COM
COMP-ANL\24-07F-TG
FBPE #3538

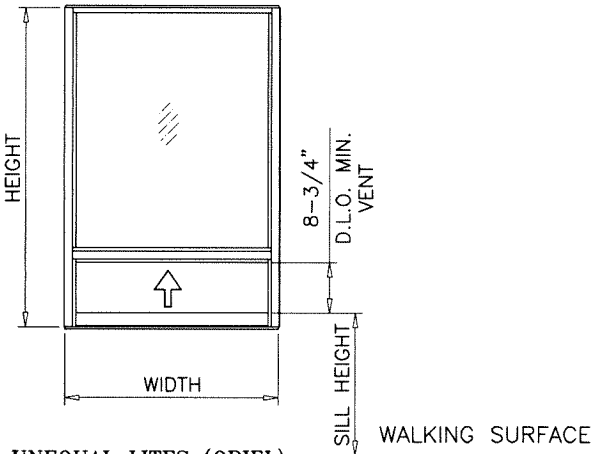
SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

revisions:
no date by description
1 02-20-24 by description
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UNEQUAL LITES SINGLE HUNG WINDOWS DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		1/2" MAX. SHIMS							
		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	48"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.6	106.7	140.0	100.0	130.0
54"		81.9	110.5	81.9	110.5	81.9	110.5	93.7	121.8
60"		58.7	79.3	58.7	79.3	58.7	79.3	-	-
66"		43.6	58.9	43.6	58.9	43.6	58.9	-	-
72"		33.3	45.0	33.3	45.0	33.3	45.0	-	-
36"	54"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
43-1/4"		100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
48"		100.0	130.0	100.0	130.0	106.7	140.0	-	-
54"		74.9	101.1	74.9	101.1	74.9	101.1	-	-
60"		53.4	72.1	53.4	72.1	53.4	72.1	-	-
36"	60"	100.0	130.0	100.0	150.0	106.7	150.0	100.0	130.0
42"		100.0	130.0	100.0	150.0	106.7	150.0	-	-
43-1/4"		100.0	130.0	100.0	150.0	103.1	150.0	-	-
48"		100.0	130.0	100.0	130.0	103.1	139.2	-	-
36"	66"	100.0	130.0	100.0	150.0	106.7	150.0	-	-
42"		100.0	130.0	100.0	150.0	106.7	150.0	-	-
43-1/4"		100.0	130.0	100.0	150.0	100.6	150.0	-	-
36"	72"	100.0	130.0	100.0	150.0	106.7	150.0	-	-



UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPES A, B & C)



UNEQUAL LITES (ORIEL)
SINGLE HUNG WINDOWS
(GLASS TYPE D)

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 2/29/2024

FL #46587

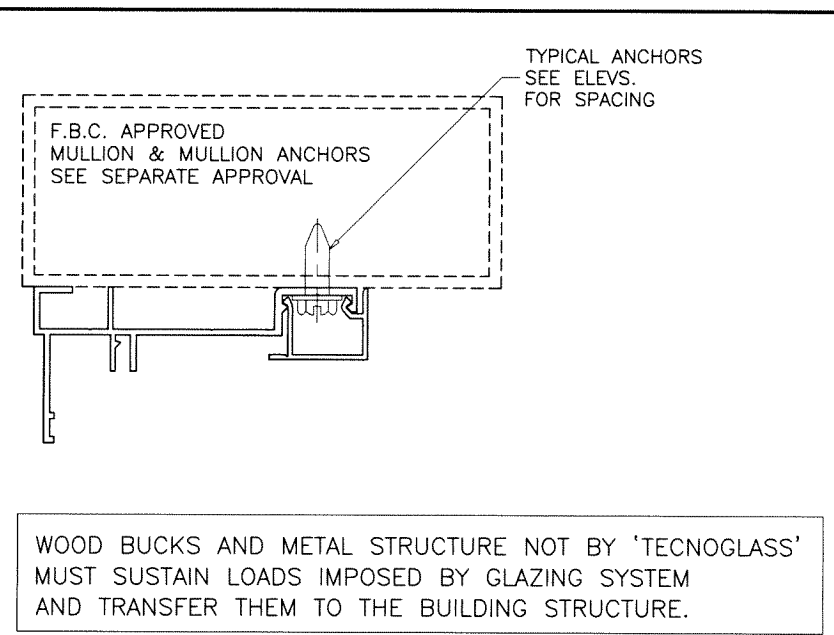
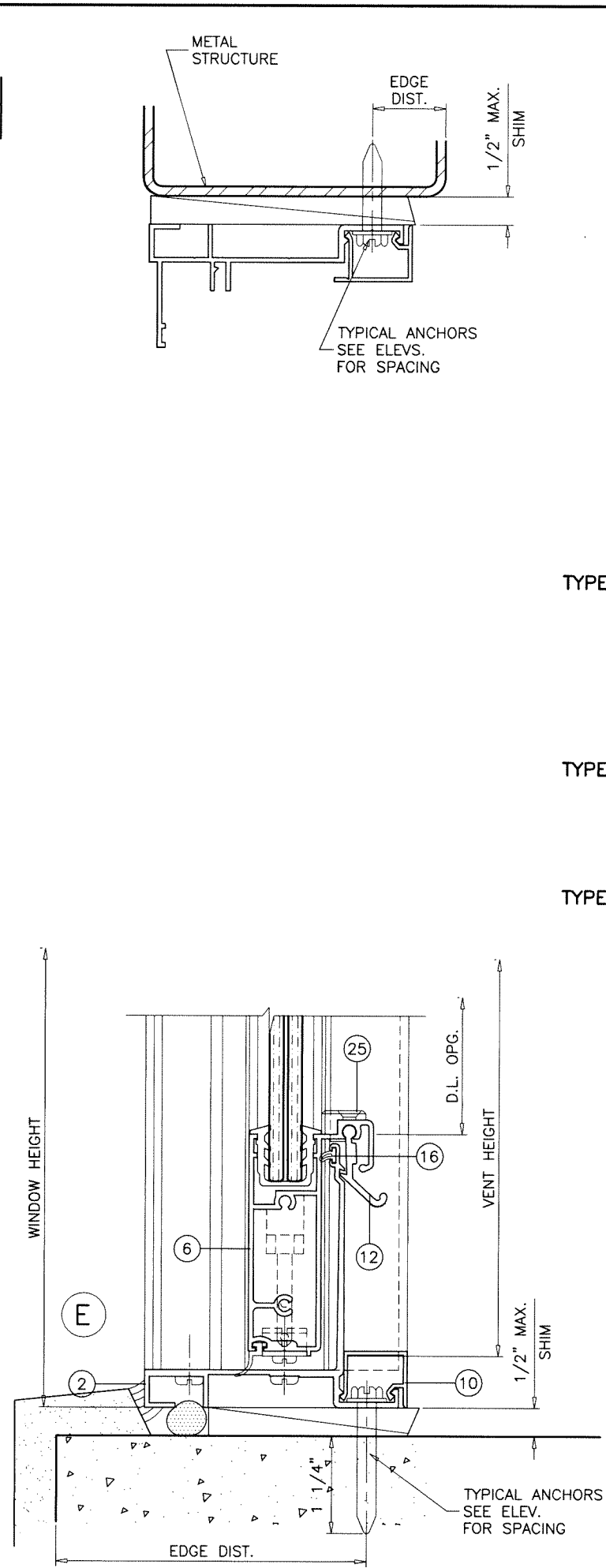
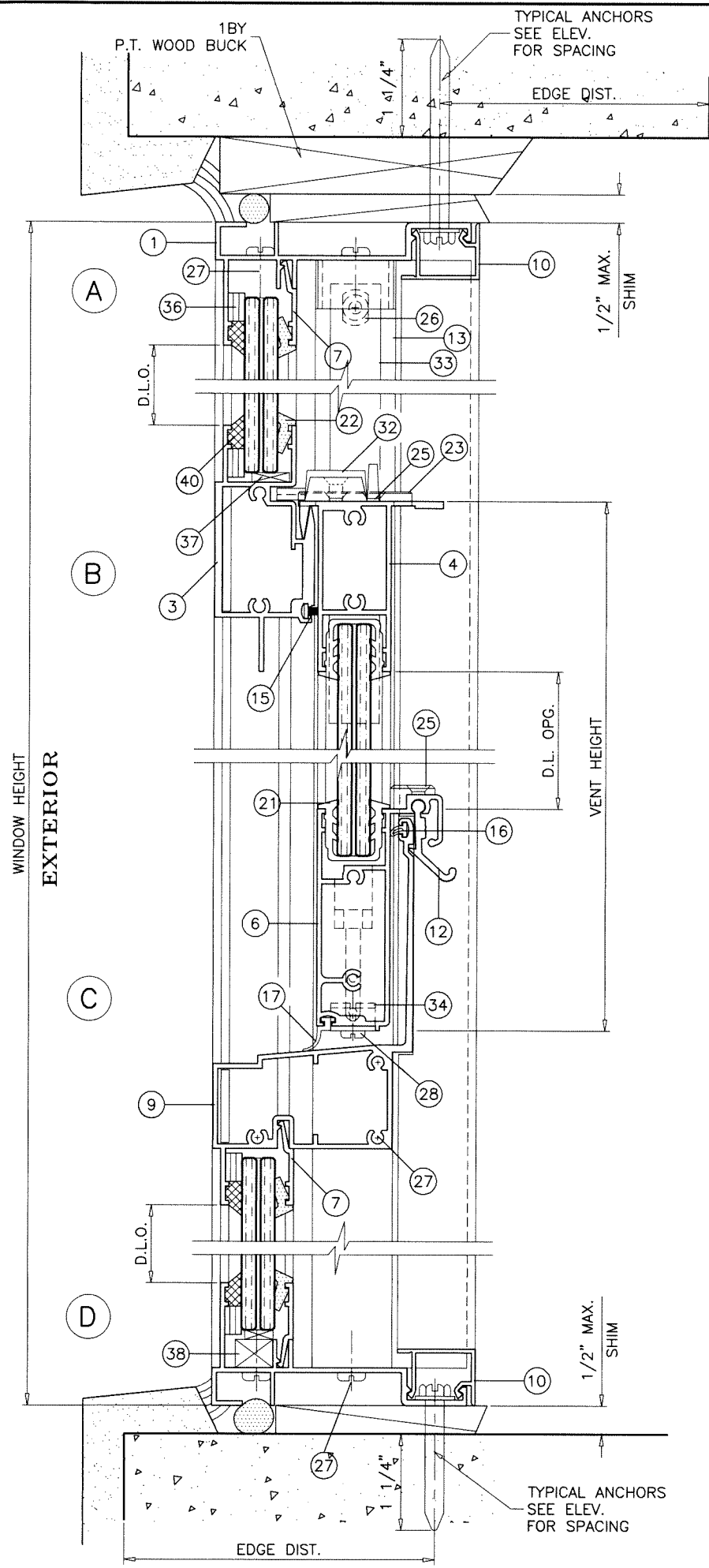


**AL-FAROOQ CORPORATION**
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no date by description
date: 02-20-24
scale: --
dr. by: TARIQ
chk. by:
drawing no.
24-07F
sheet **4** of **10**

COMP-ANL\24-07F-TG



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'B'— 1/4" DIA. KWIK-CON II+ BY 'HILTI' (Fu=138 KSI, Fy=137 KSI)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'C'— 1/4" DIA. KWIK-FLEX SELF DRILLING SCREWS BY 'HILTI' (Fu=120 KSI, Fy=92 KSI)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 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)

CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" 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 = 1500 PSI MIN.

Sealed: 2/29/2024

FL #46587



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COMP-ANL\24-07F-TG

SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)

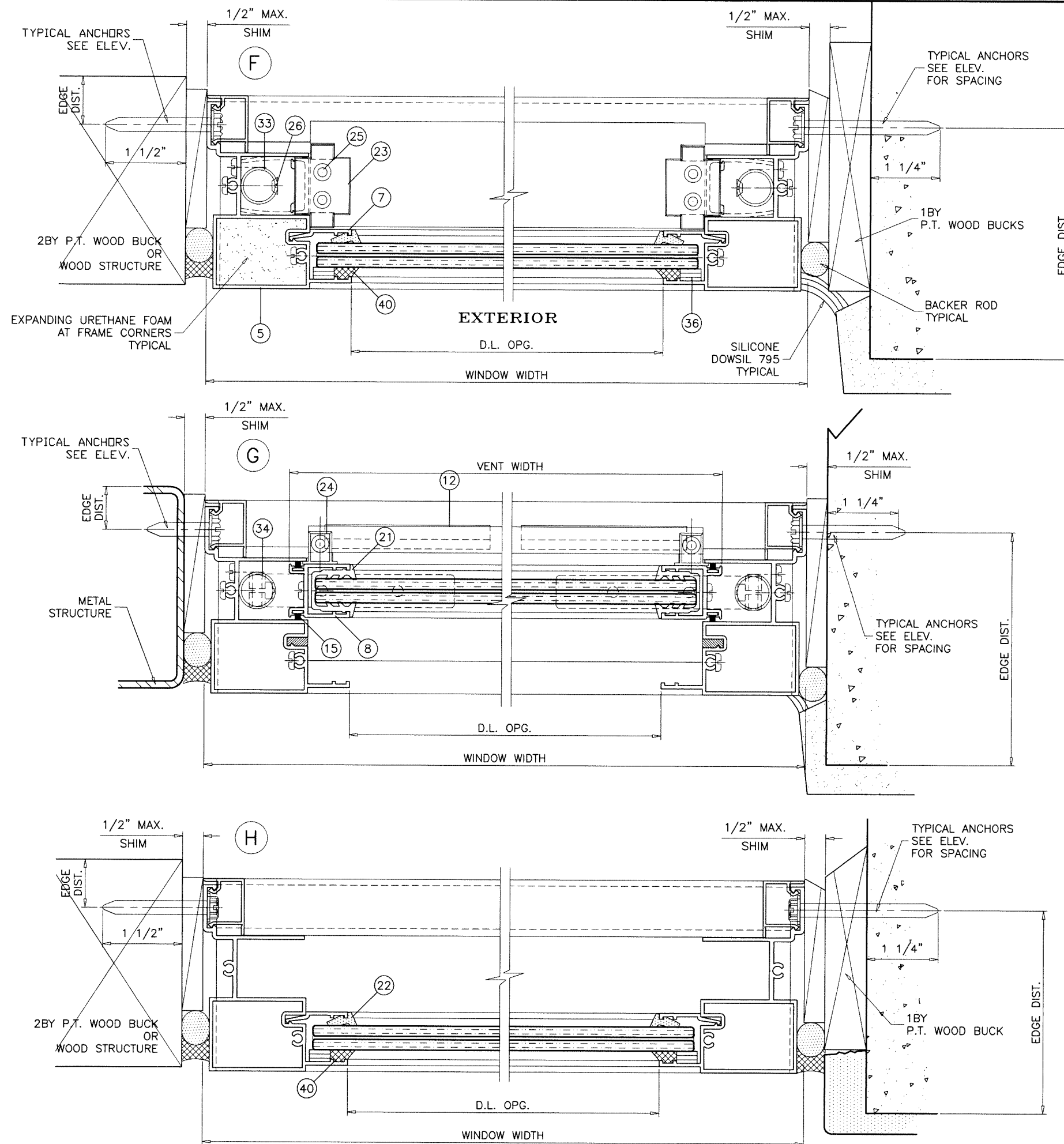
TECNOGLASS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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revisions:

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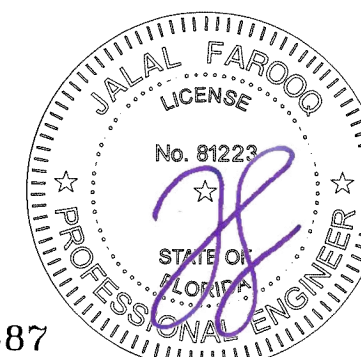
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 sheet 5 of 10



Sealed: 2/29/2024

FL #46587



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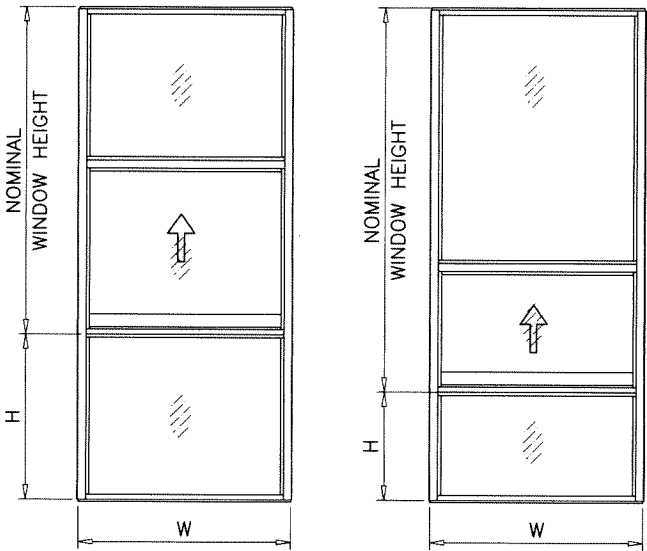
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revisions:		no	date	by	description

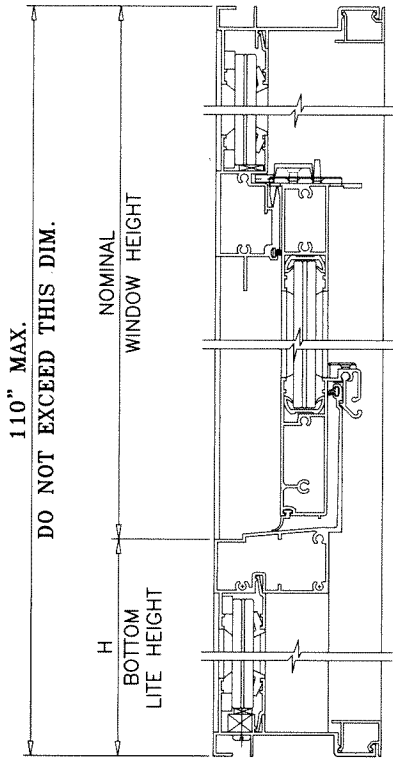
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-07F
sheet 6 of 10

WINDOWALL BOTTOM LITE CAPACITY			
DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		GLASS TYPE 'A' 'B' 'C' & 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
24"	38-3/8"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
24"	42"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
42"		91.5	119.0
24"	48"	100.0	130.0
30"		100.0	130.0
36"		100.0	130.0
36"		100.0	130.0



SINGLE HUNG OVER
FIXED WINDOWS



REFER TO SHEETS 3 THRU 4.1 TO OBTAIN CAPACITY OF WINDOW PORTION FOR CONFIGURATION/GLASS USED.

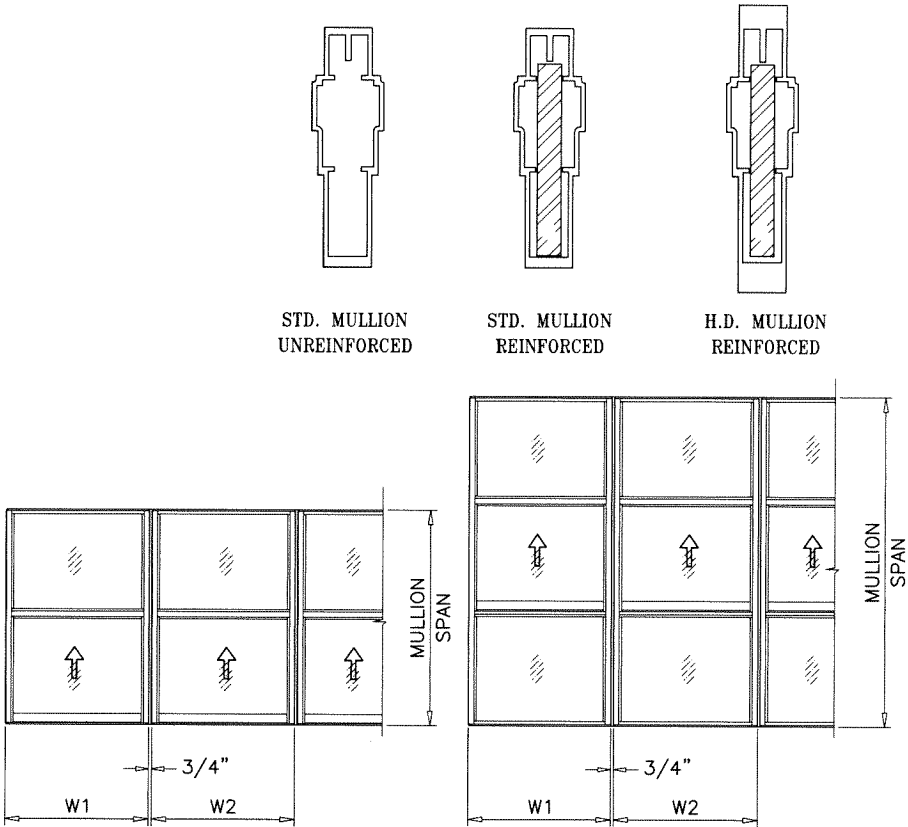
REFER TO CHART ABOVE TO OBTAIN CAPACITY OF BOTTOM LITE OF WINDOWALL.

REFER TO CHARTS AT RIGHT OF THIS PAGE TO OBTAIN MULLION CAPACITY.

USE LOWEST VALUES OF OPTIONS CONSULTED.

MULLION CAPACITY CHART - PSF			
WINDOW DIMS.		STD. MULLION UNREINFORCED	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)
36"	48"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
66"		100.0	130.0
72"		100.0	130.0
36"	54"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
60"		100.0	130.0
36"	60"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
54"		100.0	130.0
36"	66"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0
48"		100.0	130.0
36"	72"	100.0	130.0
42"		100.0	130.0
48"		100.0	130.0

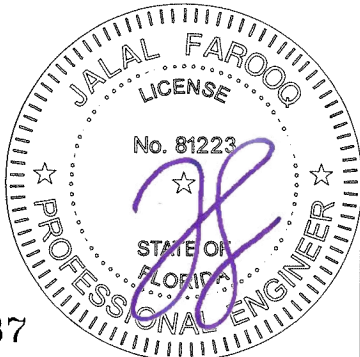
MULLION CAPACITY CHART - PSF					
WINDOW DIMS.		STD. MULLION REINFORCED		H.D. MULLION REINFORCED	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	66"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	72"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	78"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	84"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	90"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	96"	100.0	130.0	100.0	130.0
42"		100.0	130.0	100.0	130.0
48"		100.0	130.0	100.0	130.0
54"		100.0	116.6	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	108"	100.0	130.0	100.0	130.0
42"		100.0	118.4	100.0	130.0
48"		100.0	103.6	100.0	130.0
54"		100.0	130.0	100.0	130.0
60"		100.0	130.0	100.0	130.0
66"		100.0	130.0	100.0	130.0
72"		100.0	130.0	100.0	130.0
36"	110"	100.0	130.0	100.0	130.0
42"		100.0	114.1	100.0	130.0
48"		99.9	99.9	100.0	130.0
48"		99.9	99.9	100.0	130.0



$$\text{WIDTH (W)} = \frac{W1 + W2}{2} + 3/4"$$

Sealed: 2/29/2024

FL #46587



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX. (305) 264-8100
WWW.AFCENG.COM
COMP - ANL 24-07F-TG

SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)

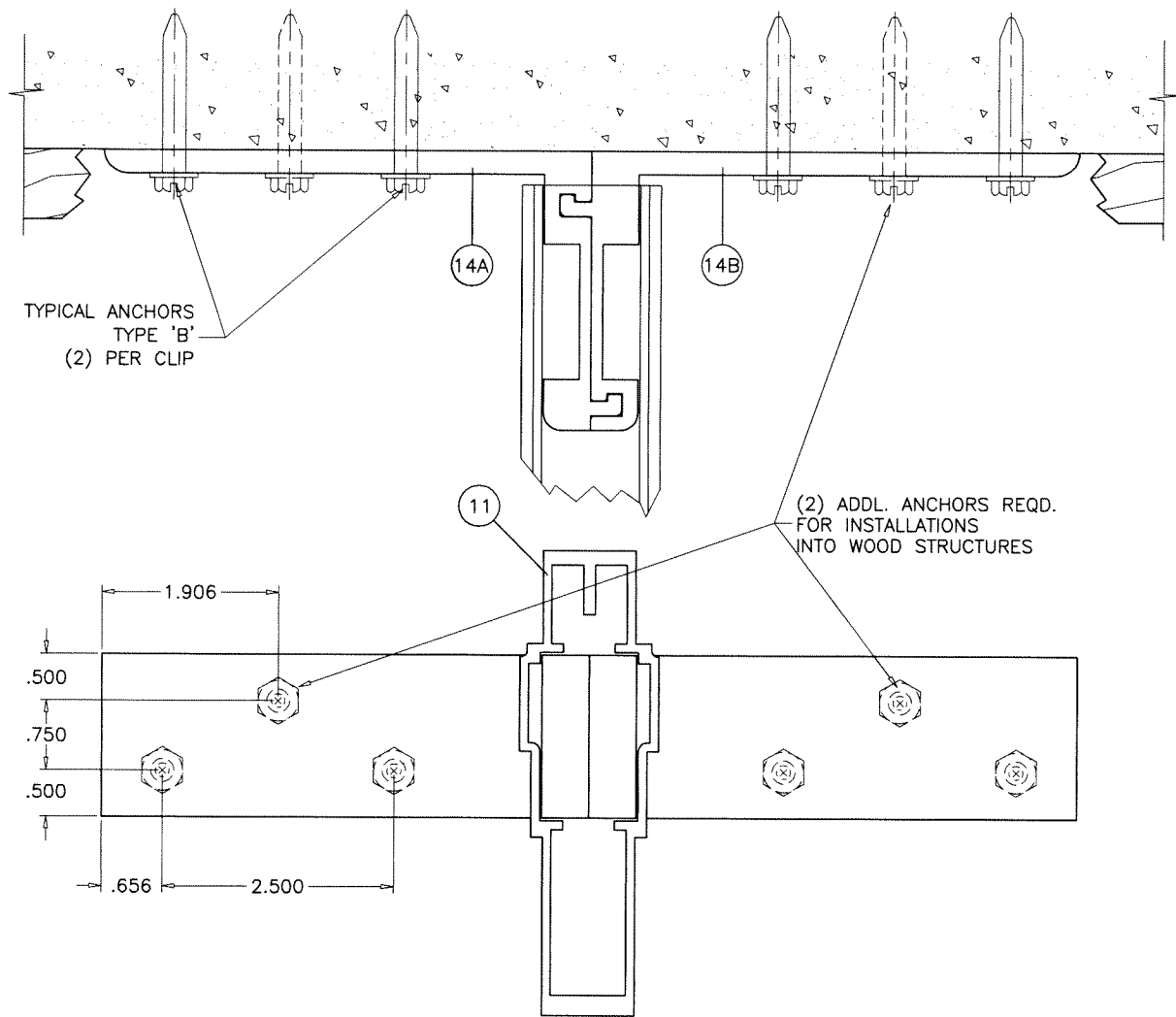
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151
FAX. (305) 638-5158

Revisions:

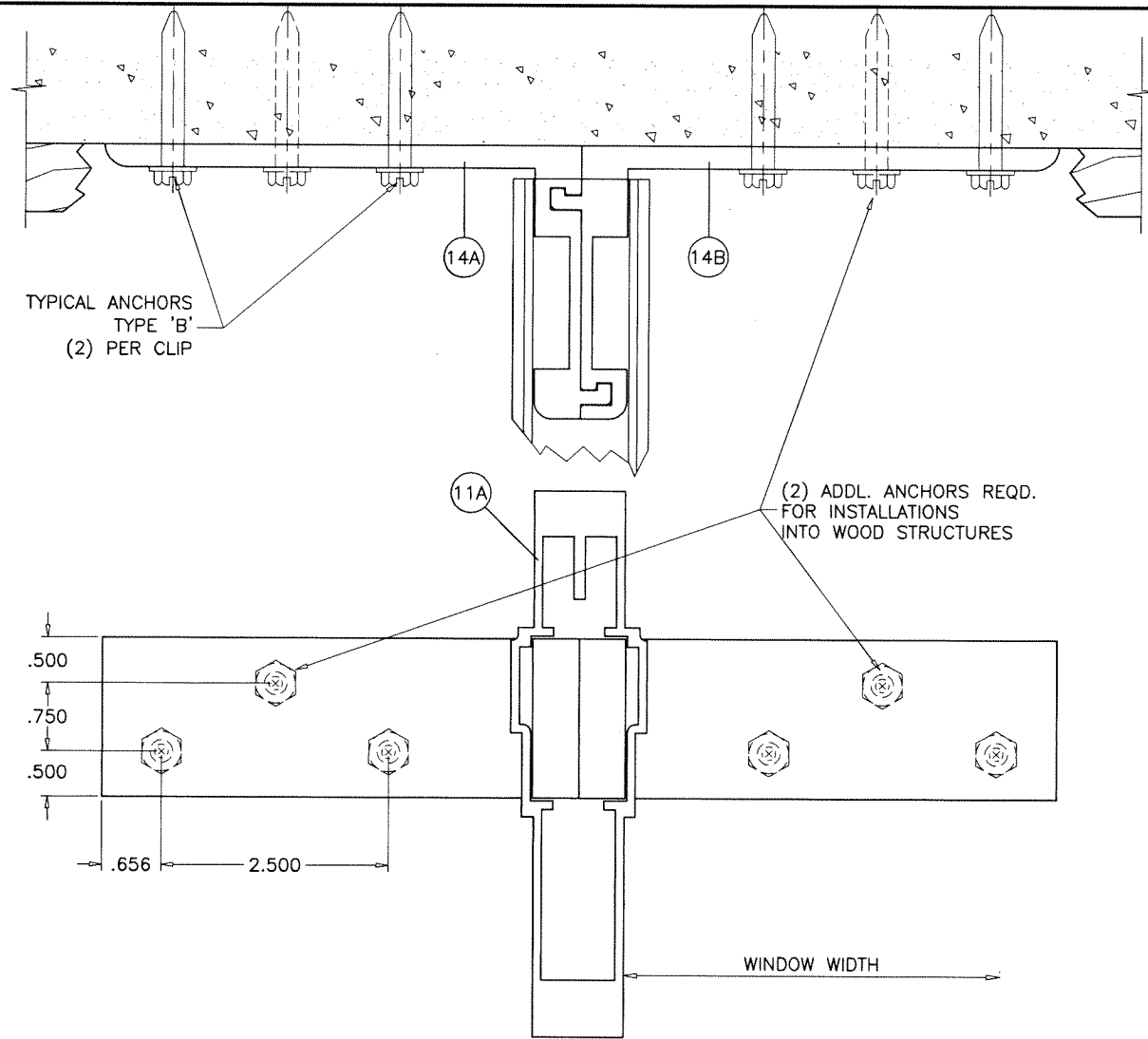
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chk. by:

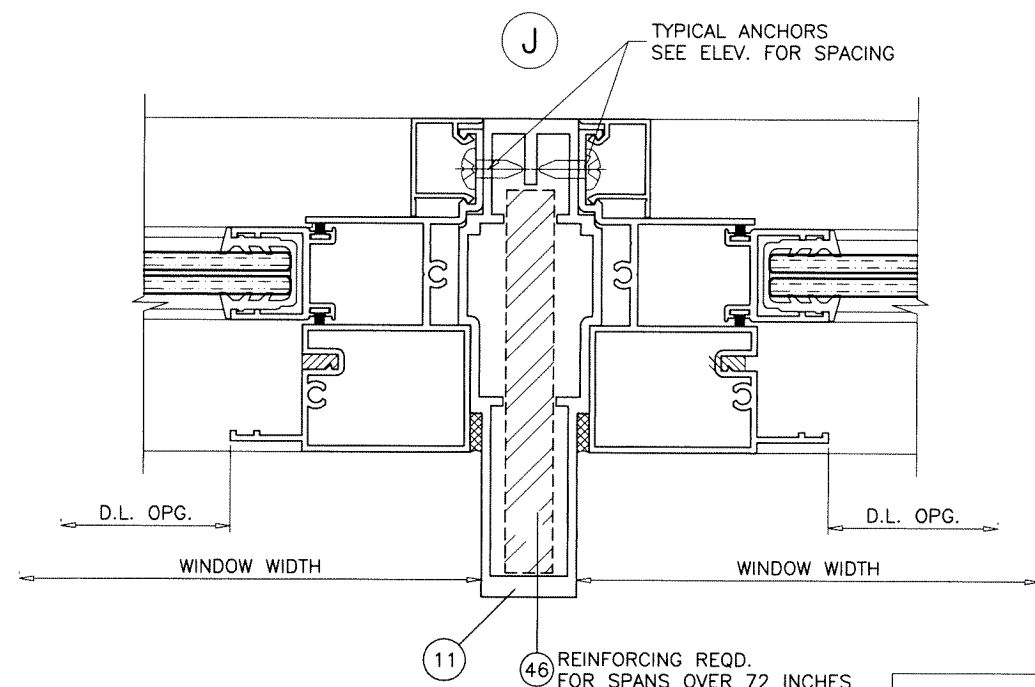
drawing no. 24-07F
sheet 7 of 10



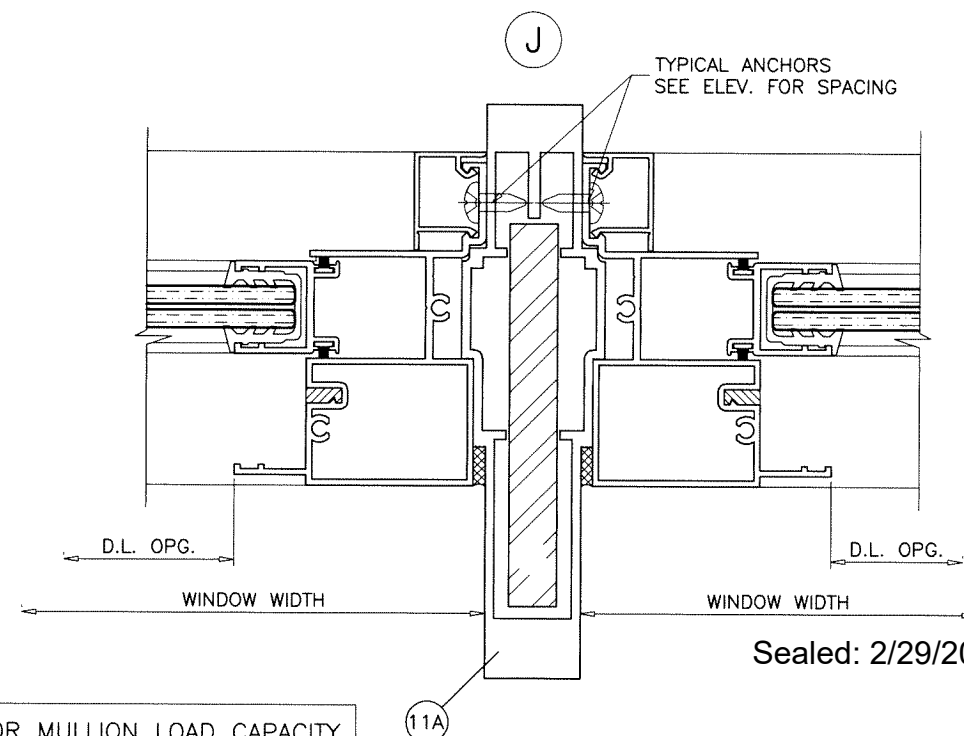
MULLION CONNECTION AT HEAD & SILL
OPTION 1



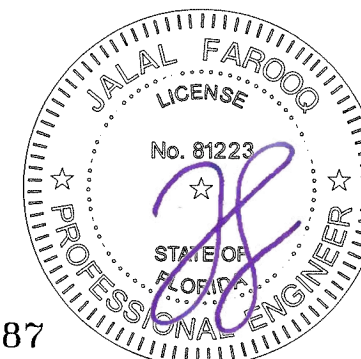
MULLION CONNECTION AT HEAD & SILL
OPTION 2



SEE CHARTS ON SHEET 6 FOR MULLION LOAD CAPACITY



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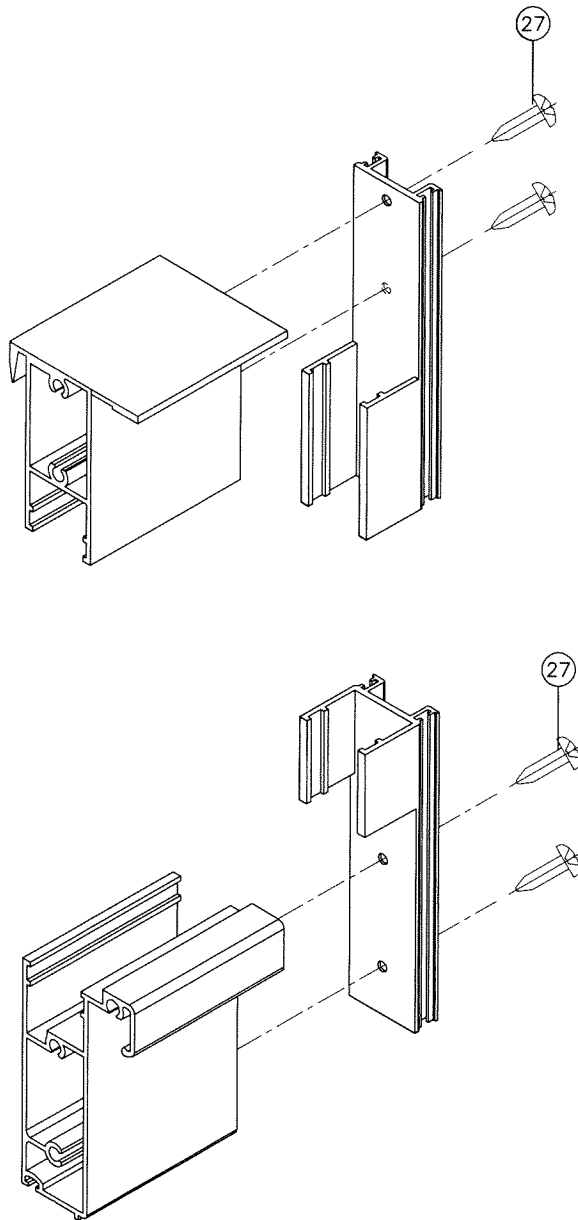


FL #46587

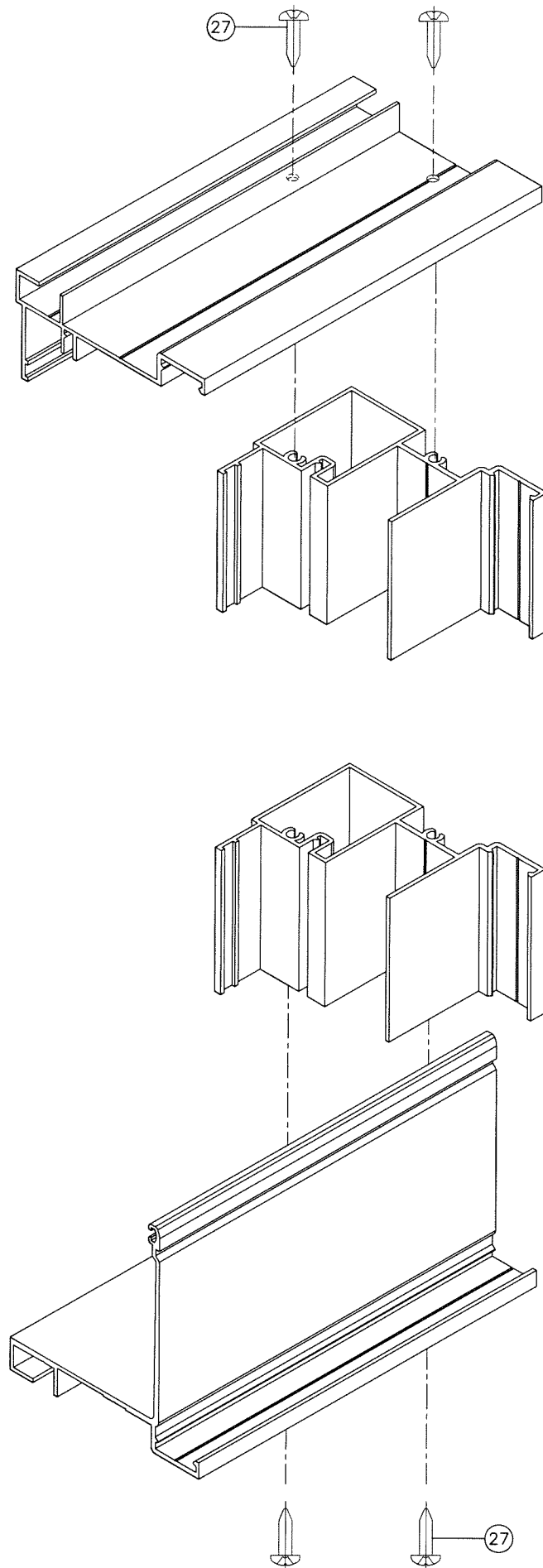
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date:	02-20-24	scale:	1/2" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	24-07F	sheet	8 of 10



VENT CORNER DETAIL



FRAME CORNERS DETAIL

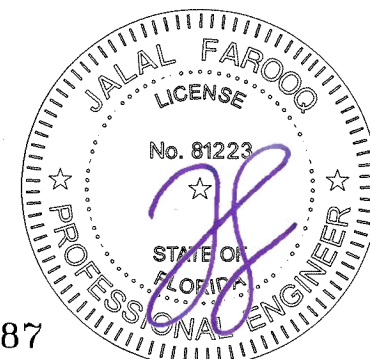
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	500Y-001	AS REQD.	HEAD & FIXED SILL	6063-T6	AT FRAME
2	500Y-002A	AS REQD.	FRAME SILL	-	AT FRAME
3	500Y-003	1	MEETING RAIL	6005-T5	AT FRAME
4	500Y-004	1	VENT TOP	6005-T5	SASH VENT
5	500Y-005	2	JAMB	6063-T6	AT FRAME
6	500Y-006A	1	VENT BOTTOM	6063-T6	SASH VENT
7	500Y-007	AS REQD.	GLAZING BEAD	6063-T6	AT FIXED GLASS
8	500Y-008	2	VENT SIDE	6063-T6	SASH VENT
9	500Y-009	AS REQD.	SILL MEETING RAIL	6005-T5	AT FRAME
10	500Y-010	AS REQD.	TRACK COVER (OPTIONAL)	6063-T6	AT FRAME
11	500Y-023	AS REQD.	STD. MULLION	6063-T6	AT FRAME
11A	500Y-029	AS REQD.	H.D. MULLION	6063-T6	AT FRAME
12	LL-300	2/VENT	HANDICAP FINGER LOCK	6063-T6	SASH VENT
13	500Y-013	1	VENT STOP	6063-T6	AT TOP OF FRAME
14A	500Y-024	AS REQD.	FEMALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
14B	500Y-025	AS REQD.	MALE ANCHOR CLIP	6063-T6	TOP & BOTTOM OF MULL
15	W33261NK	AS REQD.	WEATHERSTRIPPING PILE	-	AT VENT SIDE MEETING RAIL
16	WV-3189	AS REQD.	W'STRIPPING GASKET (DUROMETER 65 SHORE A)	VINYL	SILL & SILL MEETING RAIL
17	V-048	AS REQD.	W'STRIPPING GASKET (DUROMETER 60±5 SHORE A)	NEOPRENE	BOTTOM OF SASH VENT
21	V-052	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
21A	V-049	-	GLAZING GASKET (DUROMETER 75 SHORE A)	VINYL	-
22	V-053	-	GLAZING WEDGE (DUROMETER 70±5 SHORE A)	VINYL	-
23	P-012	2/ VENT	VENT TOP GUIDE PLASTIC M&M (ROCKWELL R 110)	NYLON	TOP OF SASH VENT
24	P-013	2/ VENT	VENT BOTTOM GUIDE PLASTIC M&M (ROCKWELL R 110)	NYLON	BOTTOM OF SASH VENT
25	-	AS REQD.	#8 X 3/8" LG. FH. SMS. ST/ST PHILLIPS	-	AT P-012, P-013 & PD-203
26	-	2	#8 X 1" LG. FH. SMS. ST/ST PHILLIPS	-	AT TOP OF BALANCE
27	-	AS REQD.	#10 X 1" LG. PH. SMS. ST/ST PHILLIPS	-	ASSEMBLY SCREWS
28	-	6	#10 X 3/4" LG. PH. SMS. ST/ST PHILLIPS	-	AT BALANCE CLIP
29	-	-	-	-	-
32	PD-203	2/ WDW	SASH LOCK	-	AT TOP OF SASH
33	-	2/ WDW	ULTRA-LIFT BALANCE #30	-	AT FRAME
34	-	2/ WDW	ULTRA-LIFT NON TILT BRACKET	-	-
36	-	-	1/4" X 1/2" FOAM TAPE SINGLE FACE	-	-
37	-	-	1/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
38	-	-	3/8" X 1/2" X 4" LG. SETTING BLOCK	NEOPRENE	DUROMETER 85±5 SHORE A
40	DC-795	-	GLAZING COMPOUND	SILICONE	-
42	-	-	-	-	-
46	-	AS REQD.	1/2" X 4" X 104" LG. STEEL.	-	AT MULLION

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH DOWSIL 795 SEALANT.

Sealed: 2/29/2024

FL #46587



SERIES 500Y ALUM SINGLE HUNG WINDOW (S.M.I.)

TECNOGLASS, LLC

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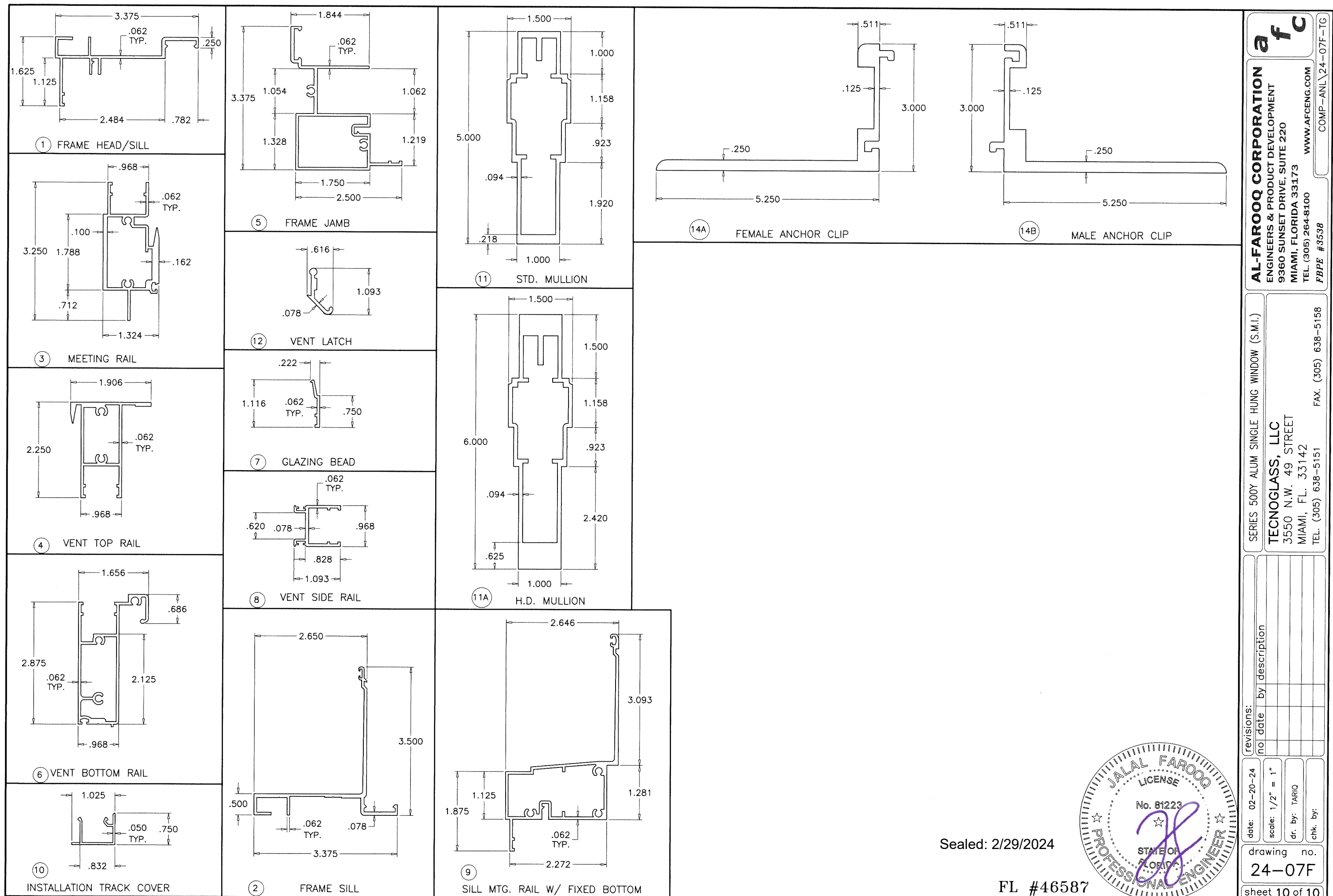
chk. by:

drawing no.

24-07F

sheet 9 of 10

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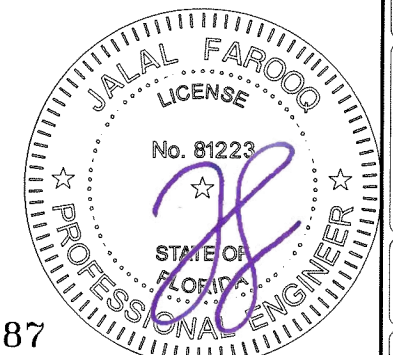
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24-07F
sheet 10 of 10