

GLAZING CALCULATIONS

DATE:

August 7, 2025

JOB NAME:

Glazing calculations for the new glazing at “9841 SW 73 Court Pinecrest, FL 33156”

JOB NUMBER:

25-190

PREPARED BY:

Farrokh Rasekhi, P.E.

DESIGN CRITERIA:

- Florida Building Code 2023 (8th Edition)
- ASCE 7-22

NOTES:

- Contractor to verify all dimensions.

STRUCTURAL DESIGN, INC.
13014 S.W. 120 Street
Miami, Florida 33186
(305) 235-4300

Sheets. 1 thru 18

Miami-Dade County Wind Load Chart for Openings

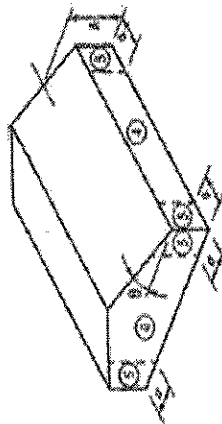
Based on ASCE 7-22 for Detached One- and Two-Family Dwellings and Multiple Single-Family Dwellings (Townhouses) with a mean roof height < 30 feet 175 mph (3-second gust) / Exposure C / $K_d = .85$, / Pressures in PSF / ASD

These tables are to be used only for one- and two-family detached dwellings and multiple single-family dwellings (townhouses) with a mean roof height of 30 feet or less. They are to be used for replacement windows. These tables can be used for French doors, sliding glass doors, solid doors, and for sectional (overhead) garage doors. They may not be used for roll-up doors due to catenary forces acting on the supports that must be checked.

The pressures are provided in pounds per square foot (psf) for allowable stress design (ASD). A positive (+) pressure acts towards the structure; negative pressure (-) acts away from the structure (suction).

The width of zone 5 is the 'a' distance; it is either 10% of the least horizontal dimension of the structure - or - 0.4 times the mean roof height, but not less than 4% of the least horizontal distance - or - 3 feet. It is measured from the corner of the structure. Note that 3-feet is not the default value, it is the minimum width.

To determine the least horizontal dimension, inscribe a box around the entire structure and use the smallest dimension of the resulting rectangle.



Windows

The effective wind area of a window is based on the size of a single pane of glass. Likewise, a sliding glass door or French door would use the size of one of the leaves, not the size of the opening.

Garage Doors

The wind area of a sectional door is based on the size of a single panel, usually no more than 24" deep, and the width of the door.

Dual Pressure Zones

A common placement for a garage door is near a corner of a residence, which would put a portion of the door in zone 5, leaving the remainder in zone 4. You can select the door based on the zone 5 pressure, or you may use a weighted average. For example, if you have a 10-ft wide door and 2-ft are in zone 5, the zone 5 suction is -50 and the zone 4 suction is -42: $((2 \times 50) + (10 \times 42)) / 10 = (100 + 420) / 10 = 520 / 10 = 52$ psf. (Round up to -44 psf)

If a window is placed in zone 4 and zone 5, use the zone 5 pressure.

A _{eff} (ft ²)	15 ft Mean Roof Height		20 ft Mean Roof Height		25 ft Mean Roof Height		30 ft Mean Roof Height	
	Zone 4		Zone 5		Zone 4		Zone 4	
	+	-	+	-	+	-	+	-
10	40	43	40	43	45	48	46	50
20	38	42	38	41	43	46	44	48
50	36	39	36	38	40	44	42	45
100	34	37	34	36	38	42	39	43
500	30	33	30	32	33	37	35	38

Wind analysis per MecaWind Pro V2335

COMP-INT/W1-15ESW
FAX (305) 264-8100
TEL (305) 264-8100

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3580)

TEL (305) 638-5151
FAX (305) 638-5150

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

NO. 03-22-11
DATE 06/14/18
BY E.S. WINDOWS, LLC

REVISIONS:
F 11/01/17
E 06/14/18
D 11/05/20
H 07/14/23

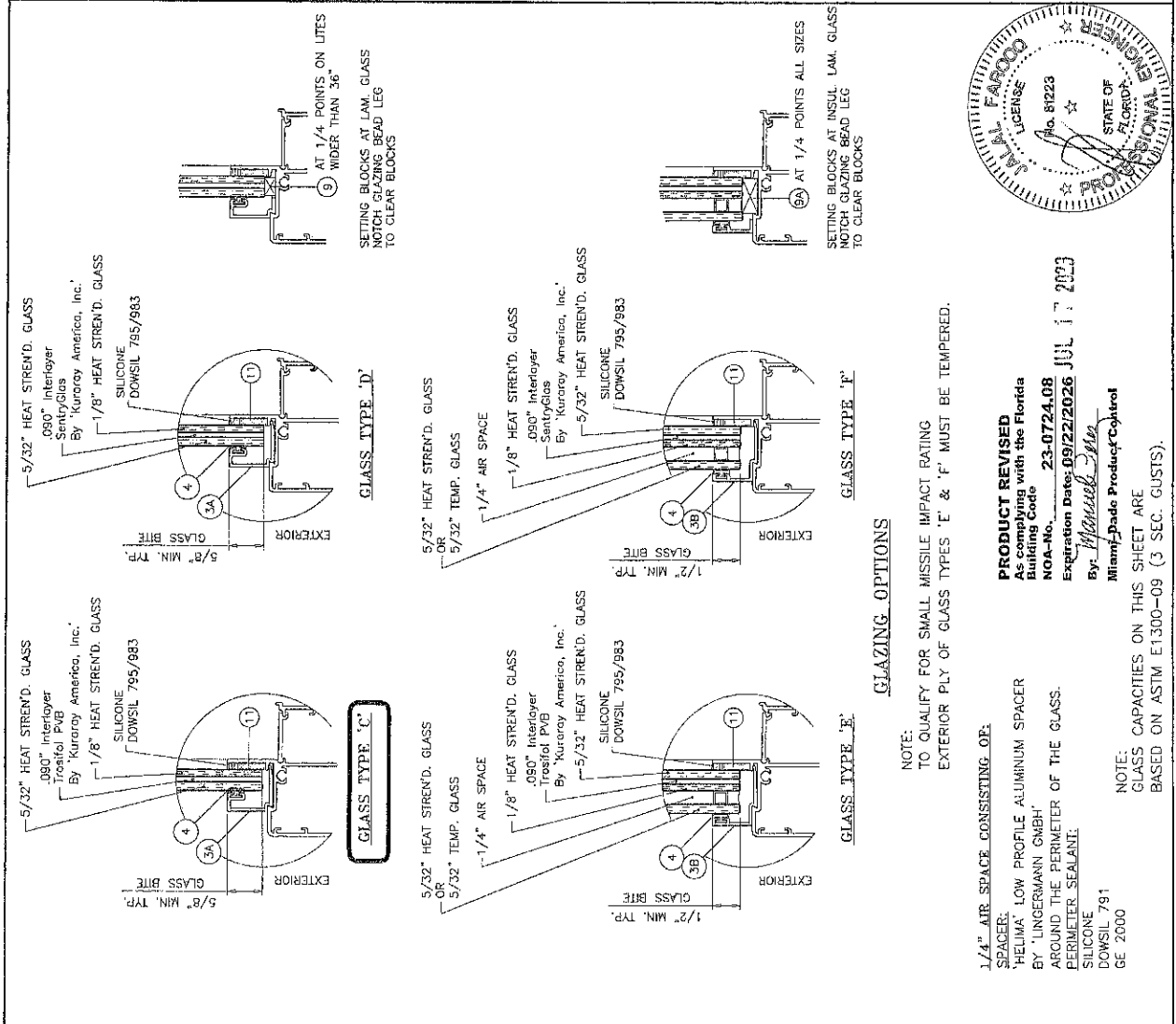
NO CHANGE THIS SHEET
UPDATED TO 2020 FBC
UPDATED TO 2017 FBC

DATE 03-22-11
SCALE 1/2" = 1"

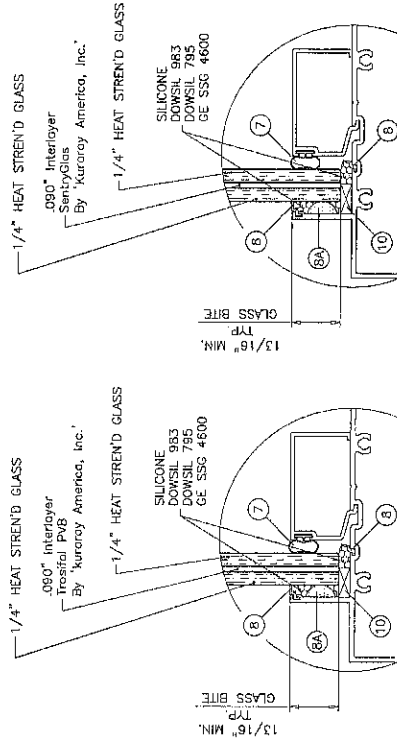
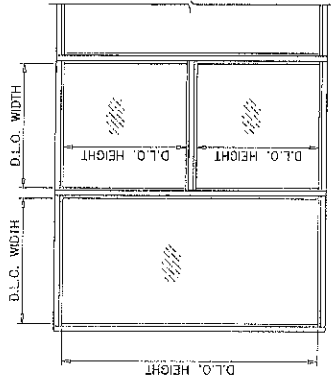
DR. BY: TARIO

DRAWING NO. W11-15

SHEET 2 OF 7



DESIGN LOAD CAPACITY - PSP				DESIGN LOAD CAPACITY - PSP			
WINDOW DIMS.		GLASS TYPES		WINDOW DIMS.		GLASS TYPES	
WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)	WIDTH (W)	LENGTH (L)	EXT. (+)	INT. (-)
24"	36"	90.0	90.0	19-1/8"	26"	90.0	90.0
30"	42"	90.0	90.0	26-1/2"	36-3/8"	90.0	90.0
36"	48"	90.0	90.0	37"	50-5/8"	90.0	90.0
42"	54"	90.0	90.0	43"	63"	90.0	90.0
48"	60"	90.0	90.0	48"	74-1/4"	90.0	90.0
54"	66"	90.0	90.0	51"	76"	90.0	90.0
60"	72"	90.0	90.0				
66"	78"	90.0	90.0				
72"	84"	90.0	90.0				
78"	90"	90.0	90.0				
84"	96"	90.0	90.0				
90"	102"	90.0	90.0				
96"	108"	90.0	90.0				
102"	114"	90.0	90.0				
108"	120"	90.0	90.0				
114"	126"	90.0	90.0				
120"	132"	90.0	90.0				
126"	138"	90.0	90.0				
132"	144"	90.0	90.0				
138"	150"	90.0	90.0				
144"	156"	90.0	90.0				
150"	162"	90.0	90.0				
156"	168"	90.0	90.0				
162"	174"	90.0	90.0				
168"	180"	90.0	90.0				
174"	186"	90.0	90.0				
180"	192"	90.0	90.0				
186"	198"	90.0	90.0				
192"	204"	90.0	90.0				
198"	210"	90.0	90.0				
204"	216"	90.0	90.0				
210"	222"	90.0	90.0				
216"	228"	90.0	90.0				
222"	234"	90.0	90.0				
228"	240"	90.0	90.0				
234"	246"	90.0	90.0				
240"	252"	90.0	90.0				
246"	258"	90.0	90.0				
252"	264"	90.0	90.0				
258"	270"	90.0	90.0				
264"	276"	90.0	90.0				
270"	282"	90.0	90.0				
276"	288"	90.0	90.0				
282"	294"	90.0	90.0				
288"	300"	90.0	90.0				
294"	306"	90.0	90.0				
300"	312"	90.0	90.0				
306"	318"	90.0	90.0				
312"	324"	90.0	90.0				
318"	330"	90.0	90.0				
324"	336"	90.0	90.0				
330"	342"	90.0	90.0				
336"	348"	90.0	90.0				
342"	354"	90.0	90.0				
348"	360"	90.0	90.0				
354"	366"	90.0	90.0				
360"	372"	90.0	90.0				
366"	378"	90.0	90.0				
372"	384"	90.0	90.0				
378"	390"	90.0	90.0				
384"	396"	90.0	90.0				
390"	402"	90.0	90.0				
396"	408"	90.0	90.0				
402"	414"	90.0	90.0				
408"	420"	90.0	90.0				
414"	426"	90.0	90.0				
420"	432"	90.0	90.0				
426"	438"	90.0	90.0				
432"	444"	90.0	90.0				
438"	450"	90.0	90.0				
444"	456"	90.0	90.0				
450"	462"	90.0	90.0				
456"	468"	90.0	90.0				
462"	474"	90.0	90.0				
468"	480"	90.0	90.0				
474"	486"	90.0	90.0				
480"	492"	90.0	90.0				
486"	498"	90.0	90.0				
492"	504"	90.0	90.0				
498"	510"	90.0	90.0				
504"	516"	90.0	90.0				
510"	522"	90.0	90.0				
516"	528"	90.0	90.0				
522"	534"	90.0	90.0				
528"	540"	90.0	90.0				
534"	546"	90.0	90.0				
540"	552"	90.0	90.0				
546"	558"	90.0	90.0				
552"	564"	90.0	90.0				
558"	570"	90.0	90.0				
564"	576"	90.0	90.0				
570"	582"	90.0	90.0				
576"	588"	90.0	90.0				
582"	594"	90.0	90.0				
588"	600"	90.0	90.0				
594"	606"	90.0	90.0				
600"	612"	90.0	90.0				
606"	618"	90.0	90.0				
612"	624"	90.0	90.0				
618"	630"	90.0	90.0				
624"	636"	90.0	90.0				
630"	642"	90.0	90.0				
636"	648"	90.0	90.0				
642"	654"	90.0	90.0				
648"	660"	90.0	90.0				
654"	666"	90.0	90.0				
660"	672"	90.0	90.0				
666"	678"	90.0	90.0				
672"	684"	90.0	90.0				
678"	690"	90.0	90.0				
684"	696"	90.0	90.0				
690"	702"	90.0	90.0				
696"	708"	90.0	90.0				
702"	714"	90.0	90.0				
708"	720"	90.0	90.0				
714"	726"	90.0	90.0				
720"	732"	90.0	90.0				
726"	738"	90.0	90.0				
732"	744"	90.0	90.0				
738"	750"	90.0	90.0				
744"	756"	90.0	90.0				
750"	762"	90.0	90.0				
756"	768"	90.0	90.0				
762"	774"	90.0	90.0				
768"	780"	90.0	90.0				
774"	786"	90.0	90.0				
780"	792"	90.0	90.0				
786"	798"	90.0	90.0				
792"	804"	90.0	90.0				
798"	810"	90.0	90.0				
804"	816"	90.0	90.0				
810"	822"	90.0	90.0				
816"	828"	90.0	90.0				
822"	834"	90.0	90.0				
828"	840"	90.0	90.0				
834"	846"	90.0	90.0				
840"	852"	90.0	90.0				
846"	858"	90.0	90.0				
852"	864"	90.0	90.0				
858"	870"	90.0	90.0				
864"	876"	90.0	90.0				
870"	882"	90.0	90.0				
876"	888"	90.0	90.0				
882"	894"	90.0	90.0				
888"	900"	90.0	90.0				
894"	906"	90.0	90.0				
900"	912"	90.0	90.0				
906"	918"	90.0	90.0				
912"	924"	90.0	90.0				
918"	930"	90.0	90.0				
924"	936"	90.0	90.0				
930"	942"	90.0	90.0				
936"	948"	90.0	90.0				
942"	954"	90.0	90.0				
948"	960"	90.0	90.0				
954"	966"	90.0	90.0				
960"	972"	90.0	90.0				
966"	978"	90.0	90.0				
972"	984"	90.0	90.0				
978"	990"	90.0	90.0				
984"	996"	90.0	90.0				
990"	1002"	90.0	90.0				
996"	1008"	90.0	90.0				
1002"	1014"	90.0	90.0				
1008"	1020"	90.0	90.0				
1014"	1026"	90.0	90.0				
1020"	1032"	90.0	90.0				
1026"	1038"	90.0	90.0				
1032"	1044"	90.0	90.0				
1038"	1050"	90.0	90.0				
1044"	1056"	90.0	90.0				
1050"	1062"	90.0	90.0				
1056"	1068"	90.0	90.0				
1062"	1074"	90.0	90.0				
1068"	1080"	90.0	90.0				
1074"	1086"	90.0	90.0				
1080"	1092"	90.0	90.0				
1086"	1098"	90.0	90.0				
1092"	1104"	90.0	90.0				
1098"	1110"	90.0	90.0				
1104"	1116"	90.0	90.0				
1110"	1122"	90.0	90.0				
1116"	1128"	90.0	90.0				
1122"	1134"	90.0	90.0				
1128"	1140"	90.0	90.0				
1134"	1146"	90.0	90.0				
1140"	1152"	90.0	90.0				
1146"	1158"	90.0	90.0				
1152"	1164"	90.0	90.0				
1158"	1170"	90.0	90.0				
1164"	1176"	90.0	90.0				
1170"	1182"	90.0	90.0				
1176"	1188"	90.0	90.0				
1182"	1194"	90.0	90.0				
1188"	1200"	90.0	90.0				
1194"	1206"	90.0	90.0				
1200"	1212"	90.0	90.0				
1206"	1218"	90.0	90.0				
1212"	1224"	90.0	90.0				
1218"	1230"	90.0	90.0				
1224"	1236"	90.0	90.0				
1230"	1242"	90.0	90.0				
1236"	1248"	90.0	90.0				
1242"	1254"	90.0	90.0				
1248"	1260"	90.0	90.0				
1254"	1266"	90.0	90.0				
1260"	1272"	90.0	90.0				
1266"	1278"	90.0	90.0				
1272"	1284"	90.0	90.0				</



GLAZING OPTIONS

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-0321.07**
Expiration Date: **04/03/2028**
By: *Matthew J. Jara*
Miami-Dade Product Control

MAR 19 2024

GLASS

GLASS LOAD CAPACITY - PSF				GLASS LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT (+)/INT (-)	EXT (+)/INT (-)	D.L.O. WIDTH	D.L.O. HEIGHT	EXT (+)/INT (-)	EXT (+)/INT (-)
28"	84'-1/2"	60.0	130.0	28"	114'-1/2"	80.0	130.0
32"		80.0	130.0	32"		80.0	130.0
36"		80.0	130.0	36"		80.0	130.0
40"		80.0	130.0	40"		80.0	130.0
44'-1/4"		80.0	130.0	44'-1/4"		80.0	130.0
48"	84'-1/2"	80.0	130.0	48'-1/2"	114'-1/2"	62.2	90.0
52"		80.0	130.0	51'-1/2"		-	90.0
56'-1/4"		80.0	130.0	54'-1/2"		-	70.0
60'-1/2"		-	63.6	60'-1/2"		-	63.6
66'-1/2"		-	56.3	66'-1/2"		-	56.3
28"	90'-1/2"	80.0	130.0	44'-1/4"	120'-1/2"	70.0	90.0
32"		80.0	130.0	48"		62.2	90.0
36"		80.0	130.0	50'-1/2"		-	90.0
40"		80.0	130.0	54'-1/2"		-	70.0
44'-1/4"		80.0	130.0	58'-1/2"		-	53.6
48"	90'-1/2"	80.0	130.0	42'-1/4"	126'-1/2"	70.0	90.0
52"		80.0	130.0	44'-1/4"		-	90.0
56'-1/2"		56.0	70.0	48"		-	90.0
60'-1/2"		-	63.6	48'-1/2"		-	70.0
66'-1/2"		-	56.3	54'-1/2"		-	70.0
28"	96'-1/2"	80.0	130.0	40"	132'-1/2"	70.0	90.0
32"		80.0	130.0	42'-1/4"		70.0	90.0
36"		80.0	130.0	44'-1/4"		-	90.0
40"		80.0	130.0	46"		-	90.0
44'-1/4"		80.0	130.0	48'-1/2"		-	70.0
48"	96'-1/2"	80.0	130.0	54'-1/2"	138'-1/2"	70.0	90.0
52"		80.0	130.0	40"		70.0	90.0
56'-1/2"		56.0	70.0	42'-1/4"		70.0	90.0
60'-1/2"		-	63.6	44'-1/4"		-	90.0
66'-1/2"		-	56.3	48'-1/2"		-	70.0
28"	102'-1/2"	80.0	130.0	54'-1/2"	144'-1/2"	70.0	90.0
32"		80.0	130.0	40"		70.0	90.0
36"		80.0	130.0	42'-1/4"		70.0	90.0
40"		80.0	130.0	44'-1/4"		-	90.0
44'-1/4"		80.0	130.0	46"		-	90.0
48"	102'-1/2"	80.0	130.0	54'-1/2"	156'-1/2"	70.0	90.0
52"		80.0	130.0	40"		70.0	90.0
56'-1/2"		56.0	70.0	42'-1/4"		70.0	90.0
60'-1/2"		-	63.6	44'-1/4"		-	90.0
66'-1/2"		-	56.3	48'-1/2"		-	70.0
28"	108'-1/2"	80.0	130.0	54'-1/2"	168'-1/2"	70.0	90.0
32"		80.0	130.0	40"		70.0	90.0
36"		80.0	130.0	42'-1/4"		70.0	90.0
40"		80.0	130.0	44'-1/4"		-	90.0
44'-1/4"		80.0	130.0	46"		-	90.0
48"	108'-1/2"	80.0	130.0	54'-1/2"	180'-1/2"	70.0	90.0
52"		80.0	130.0	40"		70.0	90.0
56'-1/2"		56.0	70.0	42'-1/4"		70.0	90.0
60'-1/2"		-	63.6	44'-1/4"		-	90.0
66'-1/2"		-	56.3	48'-1/2"		-	70.0
28"	114'-1/2"	80.0	130.0	54'-1/2"	192'-1/2"	70.0	90.0
32"		80.0	130.0	40"		70.0	90.0
36"		80.0	130.0	42'-1/4"		70.0	90.0
40"		80.0	130.0	44'-1/4"		-	90.0
44'-1/4"		80.0	130.0	46"		-	90.0
48"	114'-1/2"	80.0	130.0	54'-1/2"	216'-1/2"	70.0	90.0
52"		80.0	130.0	40"		70.0	90.0
56'-1/2"		56.0	70.0	42'-1/4"		70.0	90.0
60'-1/2"		-	63.6	44'-1/4"		-	90.0
66'-1/2"		-	56.3	48'-1/2"		-	70.0

NOTE: INTERPOLATION BETWEEN WIDTHS ALLOWED.

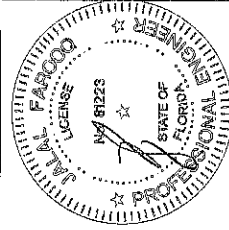
NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED

NOTE: GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

AL-FAROOG CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9600 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 5638) FAX: (305) 262-0978 TEL: (305) 264-8100		E.S. NINOWAS, LLC 3550 N.W. 49 STREET MIAMI, FL 33142 TEL: (305) 638-5151 FAX: (305) 638-0158		SERIES 8000 ALUM WINDOW WALL SYSTEM (L.M.I.) E.S. NINOWAS, LLC 3550 N.W. 49 STREET MIAMI, FL 33142 TEL: (305) 638-5151 FAX: (305) 638-0158		REVISIONS: NO. DATE BY DESCRIPTION G 11/12/01 UPDATED TO 2020 FPG H 05/10/21 CENTRAL REVISION J 01/15/23 NO CHANGE THIS SHEET J 03/11/24 NO CHANGE THIS SHEET		dtd: 08-03-07 scales: - dr. by: TAND chk. by:		drawing no. W07-60		sheet 3 of 12	
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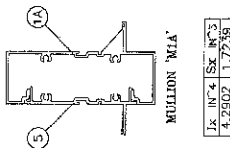
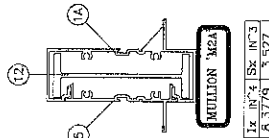
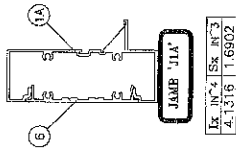
[illegible]

MILLIONS



2024 9 9

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **24-032107**
Expiration Date: **04/03/2028**
By: *Manuel Jara*
Miami-Dade Product Control



MULLION LOAD CAPACITY - PSF				MULLION LOAD CAPACITY - PSF			
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS				MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.	JAMB 'J1A'	JAMB 'J1A'	JAMB 'J1A'	NOMINAL DIMS.	JAMB 'J1A'	JAMB 'J1A'	JAMB 'J1A'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	MULL. 'M1A'	WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	MULL. 'M1A'
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"		60.0	70.0	36"		60.0	70.0
42"		60.0	70.0	42"		60.0	70.0
48"		60.0	70.0	48"		60.0	70.0
54"		60.0	70.0	54"		60.0	70.0
60"		60.0	70.0	60"		60.0	70.0
30"		60.0	70.0	30"		60.0	70.0
36"	</						

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

A circular professional engineer seal for the State of Florida. The outer ring contains the text "JAMAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "LICENSE" on the left and "STATE OF FLORIDA" on the right, also separated by two stars. In the center, the license number "NO. 61223" is printed, with a stylized signature written over it.

ANCHOR LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

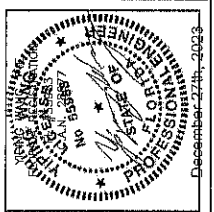
NOMINAL DIMS. WIDTH (W) FRAME HEIGHT	ANCHORS TYPE 'A'										ANCHORS TYPE 'B'										ANCHORS TYPE 'C'										1/4" MAX. SHIM ANCHORS TYPE 'D'			
	3/8" SHIM SPACE					1/2" SHIM SPACE					3/8" SHIM SPACE					1/2" SHIM SPACE					3/8" SHIM SPACE					1/2" SHIM SPACE					1/4" MAX. SHIM ANCHORS TYPE 'D'			
	A2	A3	A4	A5	A6	A2	A3	A4	A5	A6	B2	B3	B4	B5	B6	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	D2	D3	D4	D5	
30"	46.3	69.4	92.5	115.6	138.7	54.2	77.3	100.4	123.5	146.6	55.2	78.3	101.4	124.5	147.6	62.6	85.7	108.8	131.9	155.0	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
36"	38.5	57.8	77.1	96.4	115.7	45.1	64.4	83.7	103.0	122.3	46.5	65.8	85.1	104.4	123.7	52.3	71.6	90.9	110.2	129.5	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
42"	33.0	49.6	66.1	82.6	99.1	38.7	55.2	71.7	88.2	104.7	39.9	56.4	72.9	89.4	105.9	43.5	60.0	76.5	93.0	109.5	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
48"	28.9	43.4	57.8	72.3	86.7	33.8	48.3	62.7	77.2	91.6	33.2	47.7	62.1	76.6	91.0	37.2	51.7	66.2	80.7	95.2	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
54"	25.7	38.5	51.4	64.2	77.0	30.1	42.9	55.7	68.5	81.3	29.5	42.3	55.1	67.9	80.7	34.8	47.6	60.4	73.2	86.0	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
60"	23.1	34.7	46.3	57.8	69.4	27.1	38.7	50.3	61.9	73.5	26.5	38.1	49.7	61.3	72.9	38.5	50.1	61.7	73.3	84.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
66"	21.0	31.5	42.0	52.6	63.1	24.6	35.1	45.6	56.1	66.6	24.0	34.5	45.0	55.5	66.0	38.5	50.1	61.7	73.3	84.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
72"	19.0	28.5	38.0	47.5	57.0	22.6	32.1	41.6	51.1	60.6	22.0	31.5	41.0	50.5	60.0	38.5	50.1	61.7	73.3	84.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
30"	44.8	67.3	89.7	112.1	134.5	52.5	75.0	97.5	120.0	142.5	51.5	74.0	96.5	119.0	141.5	60.6	83.1	105.6	128.1	150.6	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
36"	37.4	56.0	74.7	93.4	112.1	43.7	62.3	81.0	99.7	118.4	42.9	61.5	80.2	98.9	117.6	52.3	70.9	89.6	108.3	127.0	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
42"	32.0	48.0	64.0	80.0	96.0	37.5	53.5	69.5	85.5	101.5	36.9	52.9	68.9	84.9	100.9	43.5	59.5	75.5	91.5	107.5	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
48"	28.0	42.0	56.0	70.0	84.0	33.0	47.0	61.0	75.0	89.0	32.4	46.4	60.4	74.4	88.4	40.5	54.5	68.5	82.5	96.5	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
54"	24.8	37.4	49.8	62.3	74.7	29.2	41.8	54.2	66.6	79.0	28.6	41.2	53.6	66.0	78.4	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
60"	22.4	33.6	44.8	56.0	67.2	26.2	37.4	48.6	59.8	71.0	25.6	36.8	48.0	59.2	70.4	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
66"	20.4	30.5	40.8	50.9	61.1	23.9	34.0	44.1	54.2	64.3	23.3	33.4	43.5	53.6	63.7	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
72"	18.4	28.5	37.4	46.7	55.9	21.9	31.0	40.1	49.2	58.3	21.3	30.4	39.5	48.6	57.7	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
30"	42.6	63.9	85.2	106.5	127.8	50.5	73.0	95.5	118.0	140.5	49.5	72.0	94.5	117.0	139.5	60.6	83.1	105.6	128.1	150.6	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
36"	35.5	53.2	71.0	88.7	106.4	41.6	59.3	77.0	94.7	112.4	40.9	58.6	76.3	94.0	111.7	52.3	70.9	89.6	108.3	127.0	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
42"	30.4	45.6	60.8	76.1	91.3	35.6	50.8	66.0	81.2	96.4	35.0	50.2	65.4	80.6	95.8	43.5	58.7	73.9	89.1	104.3	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
48"	26.8	39.9	53.2	66.6	80.0	31.2	44.3	57.4	70.6	83.8	30.6	43.7	56.8	69.9	83.1	40.5	53.6	66.7	79.8	92.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
54"	23.7	35.5	47.3	59.2	71.0	27.7	39.5	51.3	63.1	74.9	27.1	38.9	50.7	62.5	74.3	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
60"	21.3	31.9	42.5	53.1	63.7	24.9	35.5	46.1	56.7	67.3	24.3	34.9	45.5	56.1	66.7	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
66"	19.3	28.9	38.5	48.1	57.7	22.9	32.5	42.1	51.7	61.3	22.3	31.9	41.5	51.1	60.7	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
72"	17.3	26.9	36.5	46.1	55.7	20.9	30.5	40.1	49.7	59.3	20.3	29.9	39.5	49.1	58.7	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
30"	40.6	60.8	81.1	101.3	121.5	47.5	67.7	87.9	108.1	128.3	46.5	66.7	86.9	107.1	127.3	57.6	77.8	98.0	118.2	138.4	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
36"	33.8	50.7	67.6	84.5	101.4	39.6	56.5	73.4	90.3	107.2	38.9	55.8	72.7	89.6	106.5	50.6	67.5	84.4	101.3	118.2	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
42"	29.0	43.5	57.9	72.4	86.9	33.9	48.4	62.9	77.4	91.9	33.3	47.8	62.3	76.8	91.3	43.5	58.0	72.5	87.0	101.5	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
48"	25.4	38.0	50.7	63.4	76.1	29.7	42.3	54.9	67.6	80.3	29.1	41.7	54.4	67.1	79.8	40.5	53.6	66.7	79.8	92.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
54"	22.5	33.8	45.1	56.3	67.6	26.4	37.7	49.0	60.3	71.6	25.8	37.1	48.4	59.7	71.0	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
60"	20.3	30.4	40.6	50.7	60.9	23.7	33.8	43.9	54.0	64.1	23.1	33.2	43.3	53.4	63.5	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
66"	18.3	28.5	38.7	48.9	59.1	21.7	31.8	41.9	52.0	62.1	21.1	31.2	41.3	51.4	61.5	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
72"	16.3	26.5	36.7	46.9	57.1	19.7	29.9	40.1	50.2	60.3	19.1	29.2	39.3	49.4	59.5	38.5	51.1	63.7	76.3	88.9	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
30"	38.7	58.1	77.4	96.8	116.2	45.3	64.7	84.1	103.5	122.9	44.3	63.7	83.1	102.5	121.9	54.6	74.0	93.4	112.8	132.2	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
36"	32.3	48.4	64.5	80.7	96.8	39.6	55.7	71.8	87.9	104.0	38.9	55.0	71.1	87.2	103.3	49.0	65.1	81.2	97.3	113.4	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
42"	27.7	41.5	55.3	69.1	82.9	32.4	46.2	60.0	73.8	87.6	31.7	45.5	59.3	73.1	86.9	43.5	57.4	71.3	85.2	99.1	90.7	113.8	136.9	160.0	183.1	206.2	229.3	252.4	275.5	298.6	321.7	344.8	367.9	
48"	24.2	36.3	48.4	60.5	72.6																													

21/01

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)
 Miami, FL 33138
 10859 NE Quynhduong Ct.
 TEL: (305) 824-7775
 ES WINDOWS, INC.
 12761 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027
 WWW.MCENGINEERING.COM
 P. 305.871.0117
 MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 mcymey@mcengineering.com

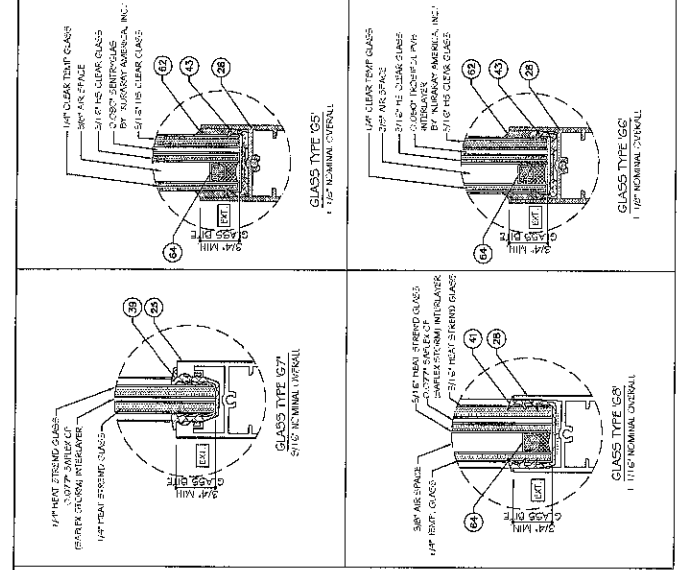
Rev.	By	Date	Description
1	ES	12/04/2021	Final

AD16-29
 G1
 14 OF 59
 December 27th, 2023



NOTE: GLASS COMPLIES WITH ASTM E1300-09 (8 SEC. GUSTS).

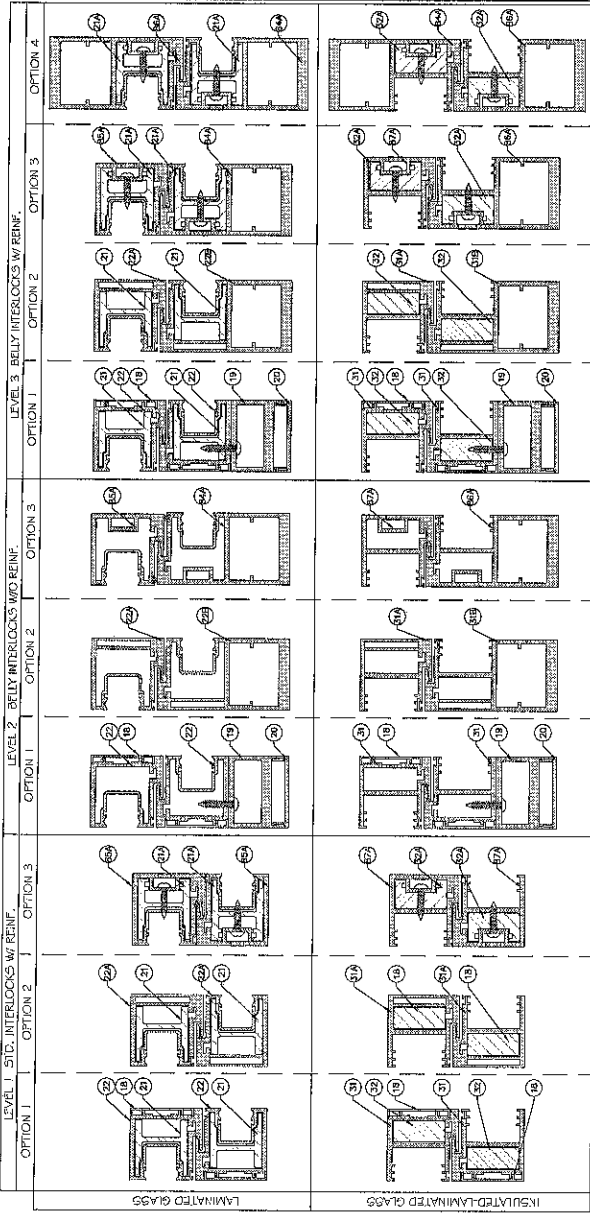
NOTE: PARTS 39, 40, 41, 43 ARE ALSO USED AS SETTING BLOCK.



SGD PANEL SIZES		DESIGN LOAD CAPACITY - PSF (GLASS)									
		91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS	91/16" NOMINAL LAMINATED GLASS
Ave. Panel Width (in)	Door Height (in)	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10
36	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
66	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
72	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
78	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
84	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
90	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
96	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
102	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
108	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
114	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
120	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
126	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
132	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
138	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
144	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
150	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
156	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
162	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
168	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
174	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
180	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
186	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
192	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
198	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
204	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
210	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
216	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
222	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
228	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
234	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
240	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
246	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
252	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
258	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
264	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
270	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
276	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
282	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
288	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
294	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
300	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
306	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
312	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
318	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
324	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
330	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
336	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
342	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
348	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
354	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
360	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
366	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
372	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
378	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
384	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
390	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
396	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
402	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
408	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
414	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
420	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
426	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
432	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
438	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
444	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
450	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
456	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
462	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
468	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
474	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
480	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
486	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
492	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
498	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
504	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
510	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
516	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
522	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
528	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
534	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
540	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
546	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
552	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
558	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
564	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
570	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
576	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
582	60	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
588	60	150.0	150.0	150.0	150.0	150					

DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES	LEVEL 1		LEVEL 2	
	STD INTERLOCK (BELL INTERLOCK W/ REINF.)	PSF	STD INTERLOCK (BELL INTERLOCK W/ REINF.)	PSF
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF
36	102	+85/-100	65.0/78.0	90.0/150.0
42	102	+85/-100	65.0/78.0	90.0/150.0
48	102	+85/-100	65.0/78.0	90.0/150.0
54	102	+85/-100	65.0/78.0	90.0/150.0
60	102	+85/-100	65.0/78.0	90.0/150.0
66	102	+85/-100	65.0/78.0	90.0/150.0
72	102	+85/-100	65.0/78.0	90.0/150.0
36	108	+85/-100	65.0/78.0	90.0/150.0
42	108	+85/-100	65.0/78.0	90.0/150.0
48	108	+85/-100	65.0/78.0	90.0/150.0
54	108	+85/-100	65.0/78.0	90.0/150.0
60	108	+85/-100	65.0/78.0	90.0/150.0
66	108	+85/-100	65.0/78.0	90.0/150.0
72	108	+85/-100	65.0/78.0	90.0/150.0
36	114	+85/-100	65.0/78.0	90.0/150.0
42	114	+85/-100	65.0/78.0	90.0/150.0
48	114	+85/-100	65.0/78.0	90.0/150.0
54	114	+85/-100	65.0/78.0	90.0/150.0
60	114	+85/-100	65.0/78.0	90.0/150.0
66	114	+85/-100	65.0/78.0	90.0/150.0
72	114	+85/-100	65.0/78.0	90.0/150.0
36	120	+85/-100	65.0/78.0	90.0/150.0
42	120	+85/-100	65.0/78.0	90.0/150.0
48	120	+85/-100	65.0/78.0	90.0/150.0
54	120	+85/-100	65.0/78.0	90.0/150.0
60	120	+85/-100	65.0/78.0	90.0/150.0
66	120	+85/-100	65.0/78.0	90.0/150.0
72	120	+85/-100	65.0/78.0	90.0/150.0
36	126	-	65.0/78.0	90.0/150.0
42	126	-	65.0/78.0	90.0/150.0
48	126	-	65.0/78.0	90.0/150.0
54	126	-	65.0/78.0	90.0/150.0
60	126	-	65.0/78.0	90.0/150.0
66	126	-	65.0/78.0	90.0/150.0
72	126	-	65.0/78.0	90.0/150.0
36	132	-	65.0/78.0	90.0/150.0
42	132	-	65.0/78.0	90.0/150.0
48	132	-	65.0/78.0	90.0/150.0
54	132	-	65.0/78.0	90.0/150.0
60	132	-	65.0/78.0	90.0/150.0
66	132	-	65.0/78.0	90.0/150.0
72	132	-	65.0/78.0	90.0/150.0
36	138	-	65.0/78.0	90.0/150.0
42	138	-	65.0/78.0	90.0/150.0
48	138	-	65.0/78.0	90.0/150.0
54	138	-	65.0/78.0	90.0/150.0
60	138	-	65.0/78.0	90.0/150.0
66	138	-	65.0/78.0	90.0/150.0
72	138	-	65.0/78.0	90.0/150.0

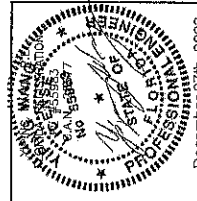
DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES	LEVEL 1		LEVEL 2	
	STD INTERLOCK (BELL INTERLOCK W/ REINF.)	PSF	STD INTERLOCK (BELL INTERLOCK W/ REINF.)	PSF
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF
36	144	-	65.0/78.0	85.0/102.0
42	144	-	65.0/78.0	85.0/102.0
48	144	-	65.0/78.0	85.0/102.0
54	144	-	65.0/78.0	85.0/102.0
60	144	-	65.0/78.0	85.0/102.0



MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027
 P. 306.271.0117
 www.mcyengineering.com
 mcy@mcyeengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SM)
 ES WINDOWS, INC.
 10653 NE Quabridge Ct.
 Miami, FL 33138
 TEL. (305) 624-7775

Drawn By	Checked By	Scale



AVE. PANEL WIDTH =
 FRAME WIDTH
 # OF PANELS

December 27th, 2023
 15 OF 59

2 TRACK FREE STANDING JAMB CAPACITY - PSF									
S&D PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)			
Ave. Panel Width (in)	Door Height (in)	PSF	PSF	PSF	PSF	PSF	PSF		
60	84	65	77	85	100	85	100		
66	84	65	73	85	100	85	100		
72	84	65	71	85	100	85	100		
78	84	65	69	85	100	85	100		
84	84	65	68	85	100	85	100		
90	84	65	66	85	100	85	100		
96	84	65	62	85	98	85	100		
102	84	65	59	85	94	85	100		
108	84	65	57	85	91	85	100		
114	84	65	56	85	88	85	100		
120	84	65	55	85	85	85	100		
126	84	65	54	85	82	85	100		
132	84	65	53	85	80	85	100		
138	84	65	52	85	78	85	100		
144	84	65	51	85	76	85	100		
150	84	65	50	85	74	85	100		
156	84	65	49	85	72	85	100		
162	84	65	48	85	70	85	100		
168	84	65	47	85	68	85	100		
174	84	65	46	85	66	85	100		
180	84	65	45	85	64	85	100		
186	84	65	44	85	62	85	100		
192	84	65	43	85	60	85	100		
198	84	65	42	85	58	85	100		
204	84	65	41	85	56	85	100		
210	84	65	40	85	54	85	100		
216	84	65	39	85	52	85	100		
222	84	65	38	85	50	85	100		
228	84	65	37	85	48	85	100		
234	84	65	36	85	46	85	100		
240	84	65	35	85	44	85	100		
246	84	65	34	85	42	85	100		
252	84	65	33	85	40	85	100		
258	84	65	32	85	38	85	100		
264	84	65	31	85	36	85	100		
270	84	65	30	85	34	85	100		
276	84	65	29	85	32	85	100		
282	84	65	28	85	30	85	100		
288	84	65	27	85	28	85	100		
294	84	65	26	85	26	85	100		
300	84	65	25	85	24	85	100		
306	84	65	24	85	22	85	100		
312	84	65	23	85	20	85	100		
318	84	65	22	85	18	85	100		
324	84	65	21	85	16	85	100		
330	84	65	20	85	14	85	100		
336	84	65	19	85	12	85	100		
342	84	65	18	85	10	85	100		
348	84	65	17	85	8	85	100		
354	84	65	16	85	6	85	100		
360	84	65	15	85	4	85	100		
366	84	65	14	85	2	85	100		
372	84	65	13	85	0	85	100		

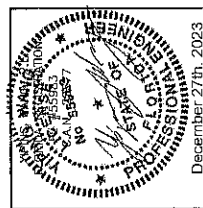
2 TRACK FREE STANDING JAMB CAPACITY - PSF									
S&D PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)			
Ave. Panel Width (in)	Door Height (in)	PSF	PSF	PSF	PSF	PSF	PSF		
36	120	54	54	54	54	54	54		
42	120	47	47	47	47	47	47		
48	120	42	42	42	42	42	42		
54	120	37	37	37	37	37	37		
60	120	34	34	34	34	34	34		
66	120	32	32	32	32	32	32		
72	120	30	30	30	30	30	30		
78	120	28	28	28	28	28	28		
84	120	26	26	26	26	26	26		
90	120	24	24	24	24	24	24		
96	120	22	22	22	22	22	22		
102	120	20	20	20	20	20	20		
108	120	18	18	18	18	18	18		
114	120	16	16	16	16	16	16		
120	120	14	14	14	14	14	14		
126	120	12	12	12	12	12	12		
132	120	10	10	10	10	10	10		
138	120	8	8	8	8	8	8		
144	120	6	6	6	6	6	6		
150	120	4	4	4	4	4	4		
156	120	2	2	2	2	2	2		
162	120	0	0	0	0	0	0		
168	120	0	0	0	0	0	0		
174	120	0	0	0	0	0	0		
180	120	0	0	0	0	0	0		
186	120	0	0	0	0	0	0		
192	120	0	0	0	0	0	0		
198	120	0	0	0	0	0	0		
204	120	0	0	0	0	0	0		
210	120	0	0	0	0	0	0		
216	120	0	0	0	0	0	0		
222	120	0	0	0	0	0	0		
228	120	0	0	0	0	0	0		
234	120	0	0	0	0	0	0		
240	120	0	0	0	0	0	0		
246	120	0	0	0	0	0	0		
252	120	0	0	0	0	0	0		
258	120	0	0	0	0	0	0		
264	120	0	0	0	0	0	0		
270	120	0	0	0	0	0	0		
276	120	0	0	0	0	0	0		
282	120	0	0	0	0	0	0		
288	120	0	0	0	0	0	0		
294	120	0	0	0	0	0	0		
300	120	0	0	0	0	0	0		
306	120	0	0	0	0	0	0		
312	120	0	0	0	0	0	0		
318	120	0	0	0	0	0	0		
324	120	0	0	0	0	0	0		
330	120	0	0	0	0	0	0		
336	120	0	0	0	0	0	0		
342	120	0	0	0	0	0	0		
348	120	0	0	0	0	0	0		
354	120	0	0	0	0	0	0		
360	120	0	0	0	0	0	0		
366	120	0	0	0	0	0	0		
372	120	0	0	0	0	0	0		

$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$$

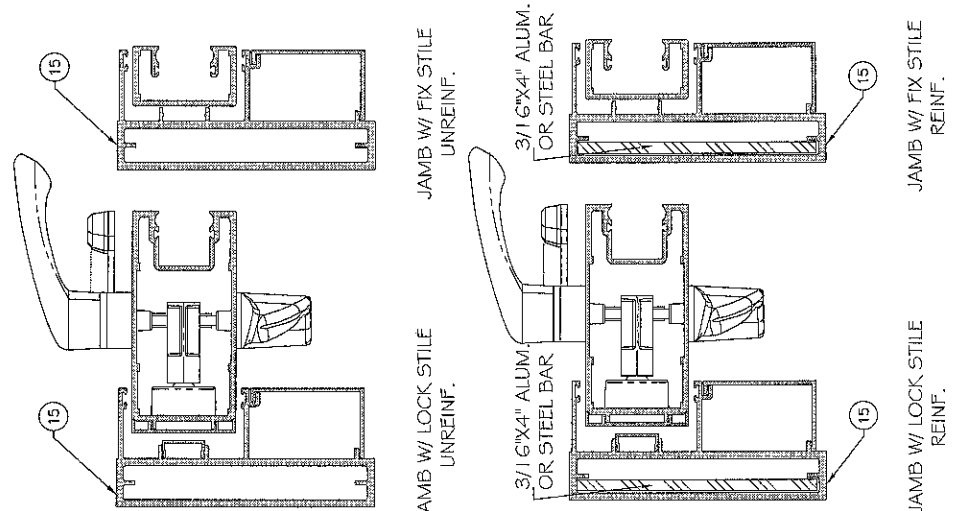
MCY ENGINEERING, INC.
 GLAZING CONSULTANTS
 12781 MIRAMAR PARKWAY #301
 MIRAMAR, FL 33027
 P. 306.871.0177
 WWW.MCYENGINEERING.COM

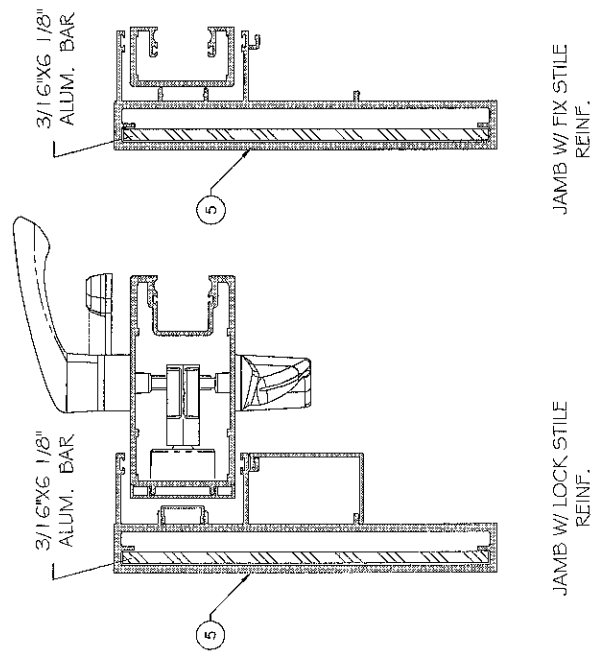
ES WINDOWS, INC.
 10653 NE QUAYDALE CT.
 MIAMI, FL 33138
 TEL (305) 824-7776

DATE	BY	DESCRIPTION



NOTE: STILE SHOWN FOR
 LAMINATED GLASS OPTION ONLY.
 CHART COVERS BOTH INSULATED
 LAMINATED AND LAMINATED GLASS
 OPTIONS.

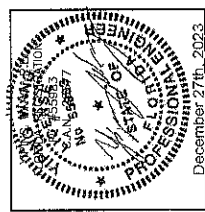




NOTE: STILE SHOWN FOR LAMINATED GLASS OPTION ONLY. CHART COVERS BOTH INSULATED LAMINATED AND LAMINATED GLASS OPTIONS.

3 TRACK F. STANDING JAMB CAPACITY - PSF				3 TRACK DESIGN LOAD JAMB CAPACITY - PSF			
SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)		SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF
60	84	85	102	36	120	85	102
66		85	102	42		85	102
72		85	102	48		85	102
78		85	102	54		85	102
84	90	85	102	60	126	85	102
60		85	102	66		85	102
66		85	102	72		85	102
72		85	102	78		85	102
78	96	85	102	84	132	85	102
84		85	102	90		85	102
90		85	102	96		85	102
96		85	102	102		85	102
102	102	85	102	108	138	85	102
108		85	102	114		85	102
120		85	102	120		85	102
126		85	102	126		85	102
132	108	85	102	132	144	85	102
138		85	102	138		85	102
144		85	102	144		85	102
150		85	102	150		85	102

$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$$



SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"					ANCHOR TYPE "B"					
Ave. Panel Width (in)	Door Height (in)	A4	A4A	A6	A6A	A8	A8A	A10	A10A	B4	B6	B8
36	94	132.4	132.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
42		118.9	118.9	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
48		109.2	109.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
54		102.2	102.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
60		97.1	97.1	145.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
66		93.4	93.4	140.1	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
72		91.0	91.0	136.5	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
78		88.6	88.6	134.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
84		89.1	89.1	133.7	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
90		121.3	121.3	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
96		106.5	106.5	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
102		99.3	99.3	148.9	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
108		92.4	92.4	138.7	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
114		87.4	87.4	131.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
120		80.9	80.9	125.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
126		78.0	78.0	117.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
132		75.6	75.6	113.5	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
138		72.8	72.8	109.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
144		70.7	70.7	106.1	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
150		69.3	69.3	104.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
156		67.5	67.5	101.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
162		65.8	65.8	98.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
168		64.2	64.2	96.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
174		62.6	62.6	94.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
180		61.2	61.2	93.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
186		59.8	59.8	91.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
192		58.4	58.4	89.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
198		57.0	57.0	88.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
204		55.6	55.6	86.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
210		54.2	54.2	85.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
216		52.8	52.8	83.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
222		51.4	51.4	81.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
228		50.0	50.0	80.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
234		48.6	48.6	78.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
240		47.2	47.2	77.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
246		45.8	45.8	75.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
252		44.4	44.4	73.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
258		43.0	43.0	72.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
264		41.6	41.6	70.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
270		40.2	40.2	69.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
276		38.8	38.8	67.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
282		37.4	37.4	65.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
288		36.0	36.0	64.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
294		34.6	34.6	62.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
300		33.2	33.2	61.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
306		31.8	31.8	59.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
312		30.4	30.4	57.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
318		29.0	29.0	56.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
324		27.6	27.6	54.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
330		26.2	26.2	53.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
336		24.8	24.8	51.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
342		23.4	23.4	49.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
348		22.0	22.0	48.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
354		20.6	20.6	46.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
360		19.2	19.2	45.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
366		17.8	17.8	43.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
372		16.4	16.4	41.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
378		15.0	15.0	40.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
384		13.6	13.6	38.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
390		12.2	12.2	37.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
396		10.8	10.8	35.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
402		9.4	9.4	33.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
408		8.0	8.0	32.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
414		6.6	6.6	30.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
420		5.2	5.2	29.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
426		3.8	3.8	27.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
432		2.4	2.4	25.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
438		1.0	1.0	24.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
444		0.0	0.0	22.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
450		0.0	0.0	21.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
456		0.0	0.0	19.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
462		0.0	0.0	17.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
468		0.0	0.0	16.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
474		0.0	0.0	14.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
480		0.0	0.0	13.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
486		0.0	0.0	11.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
492		0.0	0.0	9.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
498		0.0	0.0	8.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
504		0.0	0.0	6.6	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
510		0.0	0.0	5.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
516		0.0	0.0	3.4	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
522		0.0	0.0	1.8	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
528		0.0	0.0	0.2	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
534		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
540		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
546		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
552		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
558		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
564		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
570		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
576		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
582		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
588		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
594		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
600		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
606		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
612		0.0	0.0	0.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
618		0.0	0.0	0.0	150.0	150.0</						

SILL ANCHOR CAPACITY - PSF				ANCHOR TYPE "A" / "B"			
SGD PANEL SIZES	DOOR HEIGHT (IN)	A4 / B4	A6 / B6	A8 / B8	A10 / B10	A12 / B12	A14 / B14
36	42	150.0	150.0	150.0	150.0	150.0	150.0
42	48	150.0	150.0	150.0	150.0	150.0	150.0
48	54	137.4	150.0	150.0	150.0	150.0	150.0
54	60	130.5	150.0	150.0	150.0	150.0	150.0
60	66	125.6	150.0	150.0	150.0	150.0	150.0
66	72	122.3	150.0	150.0	150.0	150.0	150.0
72	78	120.5	150.0	150.0	150.0	150.0	150.0
78	84	119.8	150.0	150.0	150.0	150.0	150.0
84	90	117.4	150.0	150.0	150.0	150.0	150.0
90	96	112.4	150.0	150.0	150.0	150.0	150.0
96	102	108.7	150.0	150.0	150.0	150.0	150.0
102	108	106.3	150.0	150.0	150.0	150.0	150.0
108	114	104.9	150.0	150.0	150.0	150.0	150.0
114	120	103.2	150.0	150.0	150.0	150.0	150.0
120	126	101.7	150.0	150.0	150.0	150.0	150.0
126	132	100.6	150.0	150.0	150.0	150.0	150.0
132	138	99.1	150.0	150.0	150.0	150.0	150.0
138	144	97.9	150.0	150.0	150.0	150.0	150.0
144	150	96.7	150.0	150.0	150.0	150.0	150.0
150	156	95.7	150.0	150.0	150.0	150.0	150.0
156	162	94.7	150.0	150.0	150.0	150.0	150.0
162	168	93.7	150.0	150.0	150.0	150.0	150.0
168	174	92.7	150.0	150.0	150.0	150.0	150.0
174	180	91.7	150.0	150.0	150.0	150.0	150.0
180	186	90.7	150.0	150.0	150.0	150.0	150.0
186	192	89.7	150.0	150.0	150.0	150.0	150.0
192	198	88.7	150.0	150.0	150.0	150.0	150.0
198	204	87.7	150.0	150.0	150.0	150.0	150.0
204	210	86.7	150.0	150.0	150.0	150.0	150.0
210	216	85.7	150.0	150.0	150.0	150.0	150.0
216	222	84.7	150.0	150.0	150.0	150.0	150.0
222	228	83.7	150.0	150.0	150.0	150.0	150.0
228	234	82.7	150.0	150.0	150.0	150.0	150.0
234	240	81.7	150.0	150.0	150.0	150.0	150.0
240	246	80.7	150.0	150.0	150.0	150.0	150.0
246	252	79.7	150.0	150.0	150.0	150.0	150.0
252	258	78.7	150.0	150.0	150.0	150.0	150.0
258	264	77.7	150.0	150.0	150.0	150.0	150.0
264	270	76.7	150.0	150.0	150.0	150.0	150.0
270	276	75.7	150.0	150.0	150.0	150.0	150.0
276	282	74.7	150.0	150.0	150.0	150.0	150.0
282	288	73.7	150.0	150.0	150.0	150.0	150.0
288	294	72.7	150.0	150.0	150.0	150.0	150.0
294	300	71.7	150.0	150.0	150.0	150.0	150.0
300	306	70.7	150.0	150.0	150.0	150.0	150.0
306	312	69.7	150.0	150.0	150.0	150.0	150.0
312	318	68.7	150.0	150.0	150.0	150.0	150.0
318	324	67.7	150.0	150.0	150.0	150.0	150.0
324	330	66.7	150.0	150.0	150.0	150.0	150.0
330	336	65.7	150.0	150.0	150.0	150.0	150.0
336	342	64.7	150.0	150.0	150.0	150.0	150.0
342	348	63.7	150.0	150.0	150.0	150.0	150.0
348	354	62.7	150.0	150.0	150.0	150.0	150.0
354	360	61.7	150.0	150.0	150.0	150.0	150.0
360	366	60.7	150.0	150.0	150.0	150.0	150.0
366	372	59.7	150.0	150.0	150.0	150.0	150.0
372	378	58.7	150.0	150.0	150.0	150.0	150.0
378	384	57.7	150.0	150.0	150.0	150.0	150.0
384	390	56.7	150.0	150.0	150.0	150.0	150.0
390	396	55.7	150.0	150.0	150.0	150.0	150.0
396	402	54.7	150.0	150.0	150.0	150.0	150.0
402	408	53.7	150.0	150.0	150.0	150.0	150.0
408	414	52.7	150.0	150.0	150.0	150.0	150.0
414	420	51.7	150.0	150.0	150.0	150.0	150.0
420	426	50.7	150.0	150.0	150.0	150.0	150.0
426	432	49.7	150.0	150.0	150.0	150.0	150.0
432	438	48.7	150.0	150.0	150.0	150.0	150.0
438	444	47.7	150.0	150.0	150.0	150.0	150.0
444	450	46.7	150.0	150.0	150.0	150.0	150.0
450	456	45.7	150.0	150.0	150.0	150.0	150.0
456	462	44.7	150.0	150.0	150.0	150.0	150.0
462	468	43.7	150.0	150.0	150.0	150.0	150.0
468	474	42.7	150.0	150.0	150.0	150.0	150.0
474	480	41.7	150.0	150.0	150.0	150.0	150.0
480	486	40.7	150.0	150.0	150.0	150.0	150.0
486	492	39.7	150.0	150.0	150.0	150.0	150.0
492	498	38.7	150.0	150.0	150.0	150.0	150.0
498	504	37.7	150.0	150.0	150.0	150.0	150.0
504	510	36.7	150.0	150.0	150.0	150.0	150.0
510	516	35.7	150.0	150.0	150.0	150.0	150.0
516	522	34.7	150.0	150.0	150.0	150.0	150.0
522	528	33.7	150.0	150.0	150.0	150.0	150.0
528	534	32.7	150.0	150.0	150.0	150.0	150.0
534	540	31.7	150.0	150.0	150.0	150.0	150.0
540	546	30.7	150.0	150.0	150.0	150.0	150.0
546	552	29.7	150.0	150.0	150.0	150.0	150.0
552	558	28.7	150.0	150.0	150.0	150.0	150.0
558	564	27.7	150.0	150.0	150.0	150.0	150.0
564	570	26.7	150.0	150.0	150.0	150.0	150.0
570	576	25.7	150.0	150.0	150.0	150.0	150.0
576	582	24.7	150.0	150.0	150.0	150.0	150.0
582	588	23.7	150.0	150.0	150.0	150.0	150.0
588	594	22.7	150.0	150.0	150.0	150.0	150.0
594	600	21.7	150.0	150.0	150.0	150.0	150.0
600	606	20.7	150.0	150.0	150.0	150.0	150.0
606	612	19.7	150.0	150.0	150.0	150.0	150.0
612	618	18.7	150.0	150.0	150.0	150.0	150.0
618	624	17.7	150.0	150.0	150.0	150.0	150.0
624	630	16.7	150.0	150.0	150.0	150.0	150.0
630	636	15.7	150.0	150.0	150.0	150.0	150.0
636	642	14.7	150.0	150.0	150.0	150.0	150.0
642	648	13.7	150.0	150.0	150.0	150.0	150.0
648	654	12.7	150.0	150.0	150.0	150.0	150.0
654	660	11.7	150.0	150.0	150.0	150.0	150.0
660	666	10.7	150.0	150.0	150.0	150.0	150.0
666	672	9.7	150.0	150.0	150.0	150.0	150.0
672	678	8.7	150.0	150.0	150.0	150.0	150.0
678	684	7.7	150.0	150.0	150.0	150.0	150.0
684	690	6.7	150.0	150.0	150.0	150.0	150.0
690	696	5.7	150.0	150.0	150.0	150.0	150.0
696	702	4.7	150.0	150.0	150.0	150.0	150.0
702	708	3.7	150.0	150.0	150.0	150.0	150.0
708	714	2.7	150.0	150.0	150.0	150.0	150.0
714	720	1.7	150.0	150.0	150.0	150.0	150.0
720	726	0.7	150.0	150.0	150.0	150.0	150.0
726	732	0.0	150.0	150.0	150.0	150.0	150.0
732	738	0.0	150.0	150.0	150.0	150.0	150.0
738	744	0.0	150.0	150.0	150.0	150.0	150.0
744	750	0.0	150.0	150.0	150.0	150.0	150.0
750	756	0.0	150.0	150.0	150.0	150.0	150.0
756	762	0.0	150.0	150.0	150.0	150.0	150.0
762	768	0.0	150.0	150.0	150.0	150.0	150.0
768	774	0.0	150.0	150.0	150.0	150.0	150.0
774	780	0.0	150.0	150.0	150.0	150.0	150.0
780	786	0.0	150.0	150.0	150.0	150.0	150.0
786	792	0.0	150.0	150.0	150.0	150.0	150.0
792	798	0.0	150.0	150.0	150.0	150.0	150.0
798	804	0.0	150.0	150.0	150.0	150.0	150.0
804	810	0.0	150.0	150.0	150.0	150.0	150.0
810	816	0.0	150.0	150.0	150.0	150.0	150.0
816	822	0.0	150.0	150.0	150.0	150.0	150.0
822	828	0.0	150.0	150.0	150.0	150.0	150.0
828	834	0.0	150.0	150.0	150.0	150.0	150.0
834	840	0.0	150.0	150.0	150.0	150.0	150.0
840	846	0.0	150.0	150.0	150.0	150.0	150.0
846	852	0.0	150.0	150.0	150.0	150.0	150.0
852	858	0.0	150.0	150.0	150.0	150.0	150.0
858	864	0.0	150.0	150.0	150.0	150.0	150.0
864	870	0.0	150.0	150.0	150.0	150.0	150.0
870	876	0.0	150.0	150.0	150.0	150.0	150.0
876	882	0.0	150.0	150.0	150.0	150.0	150.0
882	888	0.0	150.0	150.0	150.0	150.0	150.0
888	894	0.0	150.0	150.0	150.0	150.0	150.0
894	900	0.0	150.0	150.0	150.0	150.0	150.0
900	906	0.0	150.0	150.0	150.0	150.0	150.0
906	912	0.0	150.0	150.0	150.0	150.0	150.0
912	918	0.0	150.0	150.0	150.0	150.0	150.0
918	924	0.0	150.0	150.0	150.0	150.0	150.0
924	930	0.0	150.0	150.0	150.0	150.0	150.0
930	936	0.0	150.0	150.0	150.0	150.0	150.0
936	942	0.0	150.0	150.0	150.0	150.0</	

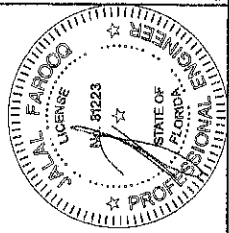
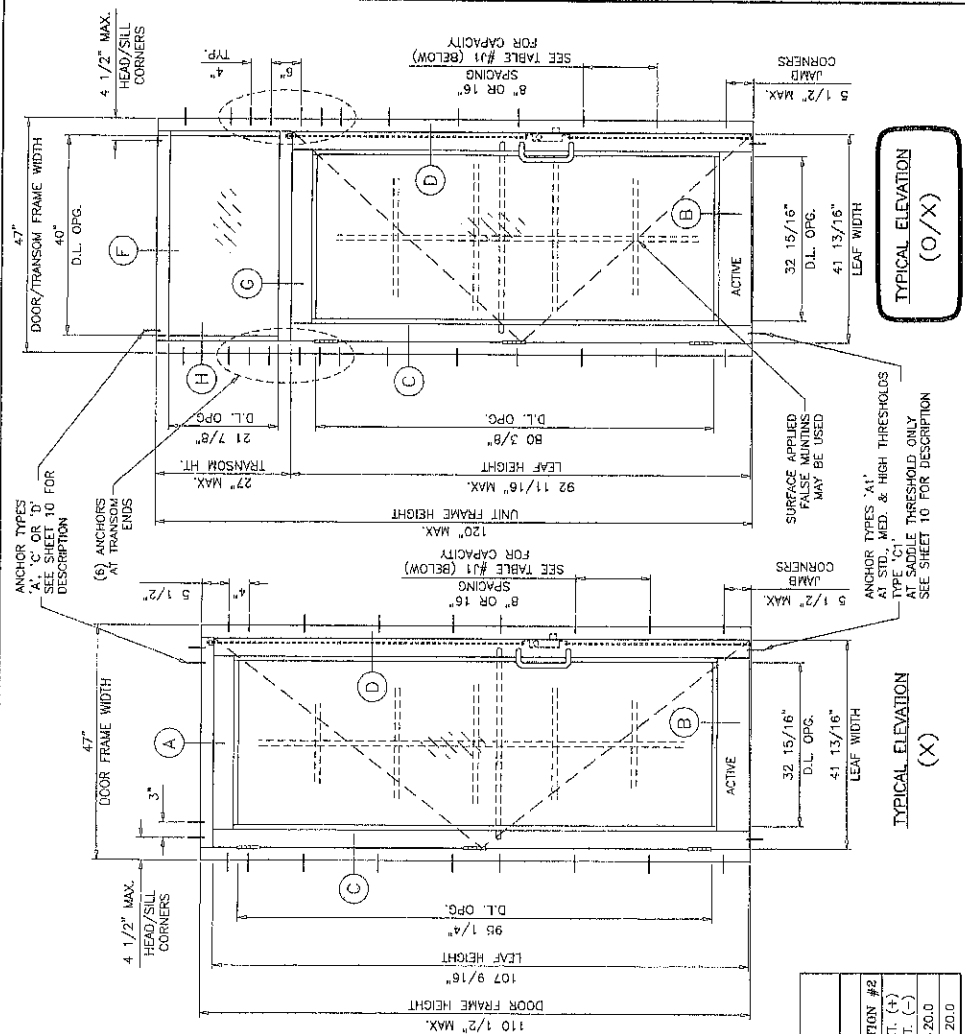
16/8

AL-FAROO CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX. (305) 262-9976
COMP-ANL-WOB-66CSW

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 838-5151
FAX. (305) 838-5158

REV. PER REVISION
NO CHANGE THIS SHEET
DATE: 07-14-08
BY: [Signature]
CHECKED BY: TARIQ
DATE: 07-14-08
SCALE: 1/2" = 1'-0"

Sheet 2 of 18
WOB-66
drawing no.
date: 07-14-08



JUL 1 2003

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

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-0724.12
Expiration Date 12/24/2028
By [Signature]
Miami-Dade Product Control

- SINGLE DOORS WITH OR WITHOUT TRANSOMS**
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE
OBTAIN LOAD CAPACITIES FROM TABLE #01.
- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
 - SELECT THRESHOLD TYPE TO BE USED:
WATER RATED HIGH THRESHOLD ITEM #20B (ES-9026) +120.0 PSF
WATER RATED MEDIUM THRESHOLD ITEM #20 (ES-9000-036) +120.0 PSF
NON WATER RATED (SADDLE THRESHOLD +80.0 PSF)
 - FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN LOAD CAPACITIES FROM TABLE #J1.
 - TRANSOMS FOR SINGLE DOORS ARE LIMITED TO ±80.0 PSF *
SEE ELEVATION AT RIGHT FOR TRANSOM END ANCHORS.
THE LOWEST VALUES FROM STEPS 1, 2, 3 AND 4 WILL GOVERN.

TABLE #D1	DOORS LOAD CAPACITY - PSF									
	SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)					HINGERS				
DOOR DIMS.	GLASS		LOCKS		HINGERS					
FRAME HEIGHT	TYPE 'A'	TYPE 'B/C'	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2	OPTION #3	OPTION #4	OPTION #5
47"	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)
47"	80.0	120.0	80.0	90.0	120.0	80.0	80.0	80.0	80.0	120.0
47"	10-1/2"	80.0	120.0	90.0	120.0	120.0	80.0	80.0	80.0	120.0

SINGLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J1	JAMB ANCHORS LOAD CAPACITY - PSF									
	SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)					SINGLE DOORS WITH TRANSOM (O/X)				
DOOR DIMS.	GLASS		LOCKS		HINGERS					
FRAME HEIGHT	TYPE 'A'	TYPE 'B/C'	OPTION #1	OPTION #2	OPTION #3	OPTION #1	OPTION #2	OPTION #3	OPTION #4	OPTION #5
47"	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)
47"	80.0	120.0	80.0	90.0	120.0	80.0	80.0	80.0	80.0	120.0
47"	10-1/2"	80.0	120.0	90.0	120.0	120.0	80.0	80.0	80.0	120.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

AL-FARROW CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6976 (A.C.N. 3638)		ALUMINUM TUBE MULLIONS E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		NO DATE BY DESCRIPTION REVISIONS 07.14.14 UPDATED TO 2014 RBC 07.17.18 UPDATED TO 2017 RBC 11.05.20 UPDATED TO 2020 RBC 06.29.23 NO CHANGE THIS SHEET		date: 04-28-04 scales: dr. by: TARMO chk. by:		sheet 3 of 8 M04-04 drawing no.	
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[illegible]

8/21

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100
FAX: (305) 262-6978
MILLION M04-04CSW

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL: (305) 638-5151
FAX: (305) 638-5150

REVISIONS:
BY: [] DATE: []
DESCRIPTION: []
NO CHANGE THIS SHEET
UPDATED TO 2020 FBC
UPDATED TO 2017 FBC
UPDATED TO 2014 FBC

DATE: 04-26-04
DRAWING NO.: M04-04
SHEET 4 OF 9

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.	WIDTH (W) MULL SPAN	ANCHORS TYPE						
		A	B	C	D	E	F	G
19-1/8"	19-1/8"	103.0	150.0	140.8	150.0	150.0	60.8	121.7
26-1/2"	26-1/2"	74.4	148.7	101.8	150.0	150.0	43.9	87.8
30"	30"	65.7	131.4	88.7	150.0	150.0	39.6	77.6
37"	37"	53.3	108.5	72.8	145.5	150.0	31.4	62.9
42"	42"	46.9	92.8	64.1	128.2	149.2	27.7	55.4
48"	48"	41.1	82.1	56.1	112.2	130.6	24.2	48.5
54"	54"	36.5	73.0	49.8	99.7	116.1	21.5	43.1
60"	60"	32.8	65.7	44.9	88.7	102.6	19.1	38.8
66"	66"	29.9	59.7	40.8	81.6	95.0	17.1	35.3
72"	72"	27.4	54.7	37.4	74.8	87.1	15.1	32.3
19-1/8"	19-1/8"	91.1	150.0	124.4	150.0	150.0	53.8	107.6
26-1/2"	26-1/2"	65.7	131.5	89.8	150.0	150.0	39.8	77.6
30"	30"	58.1	116.1	79.3	150.0	150.0	34.3	68.6
37"	37"	47.1	94.1	64.3	126.6	149.7	27.8	55.6
42"	42"	41.5	82.9	56.7	113.2	131.9	24.5	49.0
48"	48"	36.3	72.8	49.6	99.1	115.4	21.4	42.9
54"	54"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
60"	60"	29.0	58.1	39.7	79.3	92.3	17.1	34.3
66"	66"	26.4	52.8	36.1	72.1	83.9	15.1	31.2
72"	72"	24.2	48.4	33.0	66.1	77.0	13.1	28.6
19-1/8"	19-1/8"	79.7	150.0	108.9	150.0	150.0	47.1	94.1
26-1/2"	26-1/2"	57.1	115.0	78.9	150.0	150.0	34.0	67.9
30"	30"	50.8	101.6	69.4	138.8	150.0	30.0	60.0
37"	37"	41.2	82.4	56.3	112.5	131.0	24.3	48.6
42"	42"	36.3	72.6	49.6	99.1	115.4	21.4	42.9
48"	48"	31.8	63.5	43.4	86.8	101.0	19.1	37.5
54"	54"	28.2	56.4	38.6	77.1	89.8	17.1	33.3
60"	60"	25.4	50.8	34.7	69.4	80.8	15.1	30.0
66"	66"	23.1	46.2	31.5	63.1	73.5	13.1	27.3
72"	72"	21.2	42.3	28.9	57.8	67.3	11.1	25.0
19-1/8"	19-1/8"	70.8	141.7	96.8	150.0	150.0	41.8	83.7
26-1/2"	26-1/2"	51.1	102.2	66.8	139.7	150.0	30.2	60.4
30"	30"	45.2	90.3	61.7	123.4	143.6	26.7	53.3
37"	37"	38.6	73.2	50.0	100.0	116.5	21.6	43.2
42"	42"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
48"	48"	28.2	56.4	36.6	77.1	89.8	17.1	33.3
54"	54"	25.1	50.2	34.3	68.5	79.8	15.1	29.6
60"	60"	22.8	45.2	30.8	61.7	71.8	13.1	26.7
66"	66"	20.5	41.1	28.0	56.1	65.3	11.1	24.2
72"	72"	18.2	37.6	25.7	51.4	59.9	9.1	22.2

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.	WIDTH (W) MULL SPAN	ANCHORS TYPE						
		A	B	C	D	E	F	G
19-1/8"	19-1/8"	103.0	150.0	140.8	150.0	150.0	60.8	121.7
26-1/2"	26-1/2"	74.4	148.7	101.8	150.0	150.0	43.9	87.8
30"	30"	65.7	131.4	88.7	150.0	150.0	39.6	77.6
37"	37"	53.3	108.5	72.8	145.5	150.0	31.4	62.9
42"	42"	46.9	92.8	64.1	128.2	149.2	27.7	55.4
48"	48"	41.1	82.1	56.1	112.2	130.6	24.2	48.5
54"	54"	36.5	73.0	49.8	99.7	116.1	21.5	43.1
60"	60"	32.8	65.7	44.9	88.7	102.6	19.1	38.8
66"	66"	29.9	59.7	40.8	81.6	95.0	17.1	35.3
72"	72"	27.4	54.7	37.4	74.8	87.1	15.1	32.3
19-1/8"	19-1/8"	91.1	150.0	124.4	150.0	150.0	53.8	107.6
26-1/2"	26-1/2"	65.7	131.5	89.8	150.0	150.0	39.8	77.6
30"	30"	58.1	116.1	79.3	150.0	150.0	34.3	68.6
37"	37"	47.1	94.1	64.3	126.6	149.7	27.8	55.6
42"	42"	41.5	82.9	56.7	113.2	131.9	24.5	49.0
48"	48"	36.3	72.8	49.6	99.1	115.4	21.4	42.9
54"	54"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
60"	60"	29.0	58.1	39.7	79.3	92.3	17.1	34.3
66"	66"	26.4	52.8	36.1	72.1	83.9	15.1	31.2
72"	72"	24.2	48.4	33.0	66.1	77.0	13.1	28.6
19-1/8"	19-1/8"	79.7	150.0	108.9	150.0	150.0	47.1	94.1
26-1/2"	26-1/2"	57.1	115.0	78.9	150.0	150.0	34.0	67.9
30"	30"	50.8	101.6	69.4	138.8	150.0	30.0	60.0
37"	37"	41.2	82.4	56.3	112.5	131.0	24.3	48.6
42"	42"	36.3	72.6	49.6	99.1	115.4	21.4	42.9
48"	48"	31.8	63.5	43.4	86.8	101.0	19.1	37.5
54"	54"	28.2	56.4	38.6	77.1	89.8	17.1	33.3
60"	60"	25.4	50.8	34.7	69.4	80.8	15.1	30.0
66"	66"	23.1	46.2	31.5	63.1	73.5	13.1	27.3
72"	72"	21.2	42.3	28.9	57.8	67.3	11.1	25.0
19-1/8"	19-1/8"	70.8	141.7	96.8	150.0	150.0	41.8	83.7
26-1/2"	26-1/2"	51.1	102.2	66.8	139.7	150.0	30.2	60.4
30"	30"	45.2	90.3	61.7	123.4	143.6	26.7	53.3
37"	37"	38.6	73.2	50.0	100.0	116.5	21.6	43.2
42"	42"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
48"	48"	28.2	56.4	36.6	77.1	89.8	17.1	33.3
54"	54"	25.1	50.2	34.3	68.5	79.8	15.1	29.6
60"	60"	22.8	45.2	30.8	61.7	71.8	13.1	26.7
66"	66"	20.5	41.1	28.0	56.1	65.3	11.1	24.2
72"	72"	18.2	37.6	25.7	51.4	59.9	9.1	22.2

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.	WIDTH (W) MULL SPAN	ANCHORS TYPE						
		A	B	C	D	E	F	G
19-1/8"	19-1/8"	103.0	150.0	140.8	150.0	150.0	60.8	121.7
26-1/2"	26-1/2"	74.4	148.7	101.8	150.0	150.0	43.9	87.8
30"	30"	65.7	131.4	88.7	150.0	150.0	39.6	77.6
37"	37"	53.3	108.5	72.8	145.5	150.0	31.4	62.9
42"	42"	46.9	92.8	64.1	128.2	149.2	27.7	55.4
48"	48"	41.1	82.1	56.1	112.2	130.6	24.2	48.5
54"	54"	36.5	73.0	49.8	99.7	116.1	21.5	43.1
60"	60"	32.8	65.7	44.9	88.7	102.6	19.1	38.8
66"	66"	29.9	59.7	40.8	81.6	95.0	17.1	35.3
72"	72"	27.4	54.7	37.4	74.8	87.1	15.1	32.3
19-1/8"	19-1/8"	91.1	150.0	124.4	150.0	150.0	53.8	107.6
26-1/2"	26-1/2"	65.7	131.5	89.8	150.0	150.0	39.8	77.6
30"	30"	58.1	116.1	79.3	150.0	150.0	34.3	68.6
37"	37"	47.1	94.1	64.3	126.6	149.7	27.8	55.6
42"	42"	41.5	82.9	56.7	113.2	131.9	24.5	49.0
48"	48"	36.3	72.8	49.6	99.1	115.4	21.4	42.9
54"	54"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
60"	60"	29.0	58.1	39.7	79.3	92.3	17.1	34.3
66"	66"	26.4	52.8	36.1	72.1	83.9	15.1	31.2
72"	72"	24.2	48.4	33.0	66.1	77.0	13.1	28.6
19-1/8"	19-1/8"	79.7	150.0	108.9	150.0	150.0	47.1	94.1
26-1/2"	26-1/2"	57.1	115.0	78.9	150.0	150.0	34.0	67.9
30"	30"	50.8	101.6	69.4	138.8	150.0	30.0	60.0
37"	37"	41.2	82.4	56.3	112.5	131.0	24.3	48.6
42"	42"	36.3	72.6	49.6	99.1	115.4	21.4	42.9
48"	48"	31.8	63.5	43.4	86.8	101.0	19.1	37.5
54"	54"	28.2	56.4	38.6	77.1	89.8	17.1	33.3
60"	60"	25.4	50.8	34.7	69.4	80.8	15.1	30.0
66"	66"	23.1	46.2	31.5	63.1	73.5	13.1	27.3
72"	72"	21.2	42.3	28.9	57.8	67.3	11.1	25.0
19-1/8"	19-1/8"	70.8	141.7	96.8	150.0	150.0	41.8	83.7
26-1/2"	26-1/2"	51.1	102.2	66.8	139.7	150.0	30.2	60.4
30"	30"	45.2	90.3	61.7	123.4	143.6	26.7	53.3
37"	37"	38.6	73.2	50.0	100.0	116.5	21.6	43.2
42"	42"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
48"	48"	28.2	56.4	36.6	77.1	89.8	17.1	33.3
54"	54"	25.1	50.2	34.3	68.5	79.8	15.1	29.6
60"	60"	22.8	45.2	30.8	61.7	71.8	13.1	26.7
66"	66"	20.5	41.1	28.0	56.1	65.3	11.1	24.2
72"	72"	18.2	37.6	25.7	51.4	59.9	9.1	22.2

DESIGN LOAD CAPACITY - PSF

WINDOW DIMS.	WIDTH (W) MULL SPAN	ANCHORS TYPE						
		A	B	C	D	E	F	G
19-1/8"	19-1/8"	103.0	150.0	140.8	150.0	150.0	60.8	121.7
26-1/2"	26-1/2"	74.4	148.7	101.8	150.0	150.0	43.9	87.8
30"	30"	65.7	131.4	88.7	150.0	150.0	39.6	77.6
37"	37"	53.3	108.5	72.8	145.5	150.0	31.4	62.9
42"	42"	46.9	92.8	64.1	128.2	149.2	27.7	55.4
48"	48"	41.1	82.1	56.1	112.2	130.6	24.2	48.5
54"	54"	36.5	73.0	49.8	99.7	116.1	21.5	43.1
60"	60"	32.8	65.7	44.9	88.7	102.6	19.1	38.8
66"	66"	29.9	59.7	40.8	81.6	95.0	17.1	35.3
72"	72"	27.4	54.7	37.4	74.8	87.1	15.1	32.3
19-1/8"	19-1/8"	91.1	150.0	124.4	150.0	150.0	53.8	107.6
26-1/2"	26-1/2"	65.7	131.5	89.8	150.0	150.0	39.8	77.6
30"	30"	58.1	116.1	79.3	150.0	150.0	34.3	68.6
37"	37"	47.1	94.1	64.3	126.6	149.7	27.8	55.6
42"	42"	41.5	82.9	56.7	113.2	131.9	24.5	49.0
48"	48"	36.3	72.8	49.6	99.1	115.4	21.4	42.9
54"	54"	32.3	64.5	44.1	88.1	102.6	19.1	38.1
60"	60"	29.0	58.1	39.7	79.3			