TECNOGLASS, LLC
ES-SGD 2020TG SLIDING GLASS DOOR (3 TRACK)
LARGE MISSILE IMPACT

USER GUIDE		
CATEGORY	DESCRIPTION	PAGE
DOOR CONFIGURATION	-	SHEET 02&04
CORNER STILE	-	SHEET 03
GLASS TYPE	DRY GLAZED	SHEET 05
	WET GLAZED	SHEET 06-07
INTERLOCK	LEVEL 1	SHEET 05-07
	LEVEL 2	
	LEVEL 3	
JAMB	ANCHORED JAMB	SHEET 05-07
	POCKET JAMB	SHEET 05-07
	FREE STANDING JAMB	SHEET 08
SILL RAISER	-	SHEET 05
ANCHOR	HEAD/ SILL	SHEET 10
	ANCHORED JAMB	SHEET 09
	POCKET JAMB	

DOORS RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

LAMINATED GLASS AND INSULATED-LAMINATED GLASS LARGE MISSILE IMPACT.

ES-SGD 2020TG SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

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

THESE DOORS ARE APPROVED FOR AIR AND WATER INFILTRATION.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL / METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

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

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2 SEE APPROVED CONFIGURATIONS ON SHEETS 02 THROUGH 04. SEE CHARTS ON SHEET 05 TO 07 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE AND INTERLOCK OPTIONS. SEE SHEET 05 FOR SILL RAISER OPTIONS BASED ON POSITIVE LOAD. SLIDING GLASS DOOR ON SHEET 05 TO 07 ARE WITH ANCHORED OR POCKET JAMB. SEE SHEET 09 FOR JAMB ANCHOR OPTION AND SPACING.

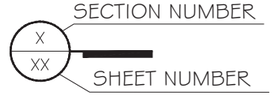
STEP 3 SEE SHEET 08 FOR SLIDING GLASS DOOR WITH FREE STANDING JAMB OPTION.

STEP 4 USING CHARTS ON SHEET 10 FOR HEAD AND SILL ANCHORS SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
LG. - LONG
STL. - STEEL
ALUM. - ALUMINUM
MULL. - MULLION
HORIZ. - HORIZONTAL
W/ - WITH
W/O - WITHOUT
VERT.- VERTICAL
T.H.- TRANSOM HEIGHT
℄ - CENTER LINE
S.S. - STAINLESS STEEL
H.S. - HEAT STRENGTHENED
SSG - STRUCTURAL SILICONE GLAZED
TEMP. - TEMPERED
O.C. - ON CENTER
G.B. - GLASS BITE



LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.

E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL46130.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
LIC.#55983
C.A.N. 48837
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

February 16th, 2024

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ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

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3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev. No.	Date	Drawn By	Description
R1	02.04.2024	James	NEW APPLICATION

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AD23-81

COVER

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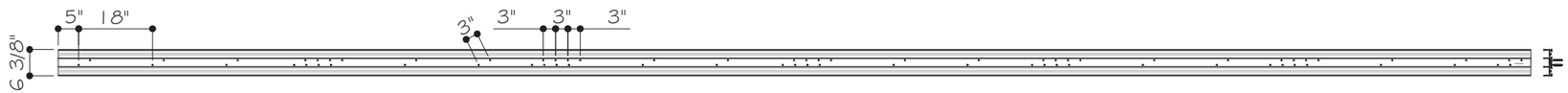
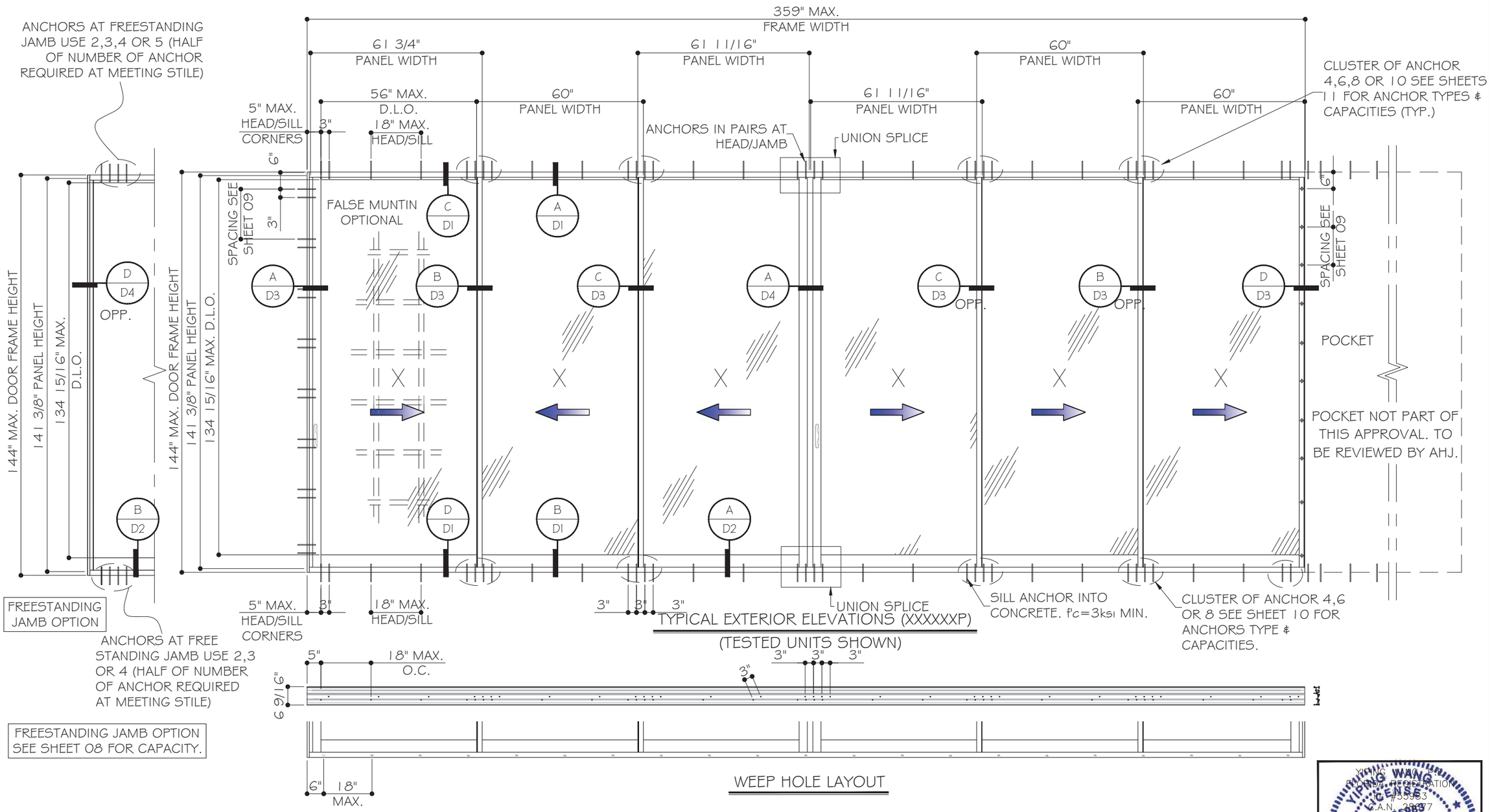


3 TRACK
HEAD ANCHORS



TYPICAL EXTERIOR ELEVATIONS (XXXXXXP)

(TESTED UNITS SHOWN)

FREESTANDING JAMB OPTION
SEE SHEET 08 FOR CAPACITY.

WEEP HOLE LAYOUT

NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

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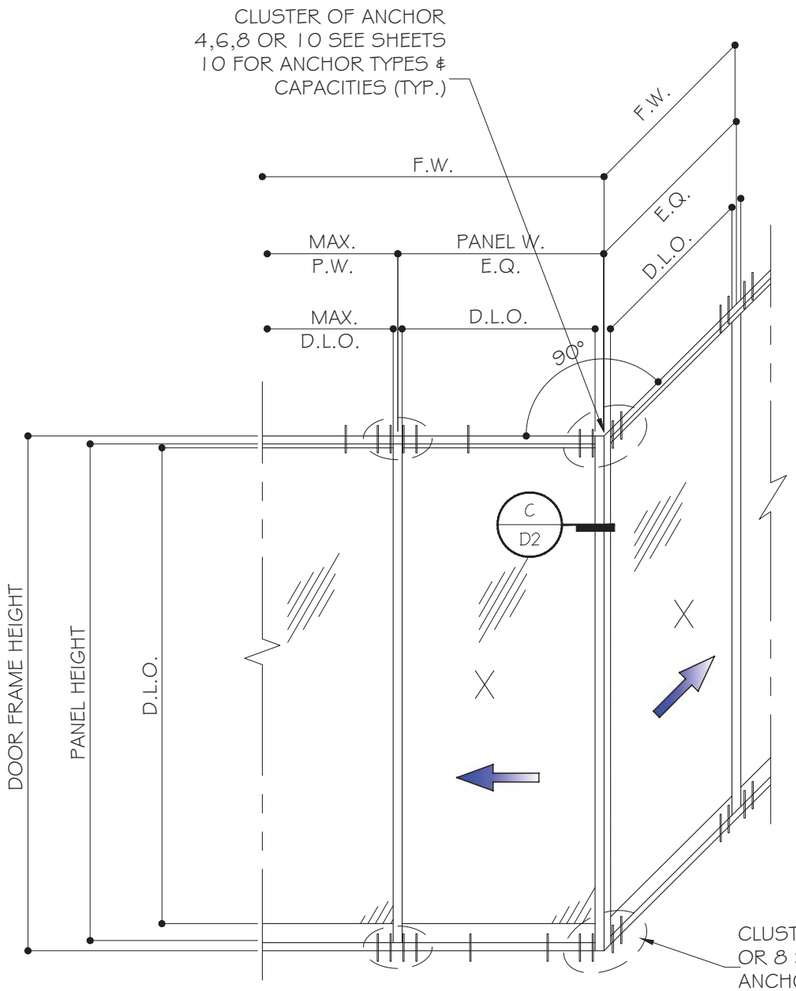
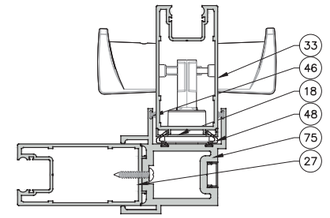


CORNER STILE

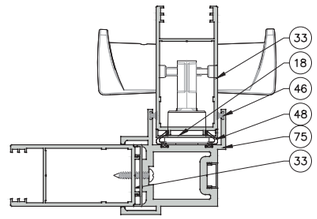
NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND EQUAL LOAD AT BOTH SIDES. FOR UNEQUAL CONDITIONS TO BE CHECKED SEPARATELY.

CORNER STILE



EXTERIOR

CORNER STILE FOR
LAMINATED GLASS



EXTERIOR

CORNER STILE FOR
INSULATED
LAMINATED GLASS

SLIDING DOOR WITH 90° CORNER

SLIDING DOOR WITH CORNER STILE			
PANEL W. (E.Q. AT BOTH SIDE)	F.H.	ALLOW. DESIGN LOAD	
(IN)	(IN)	(+) PSF	(-) PSF
48	120	90	102
50	114	90	102
53.25	108	90	102
56	102	90	102

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PROFESSIONAL ENGINEER

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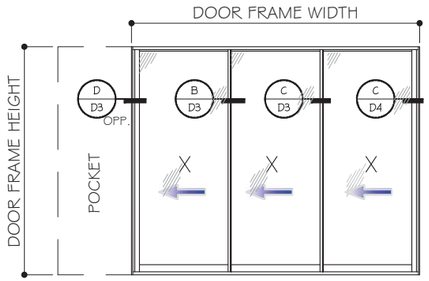
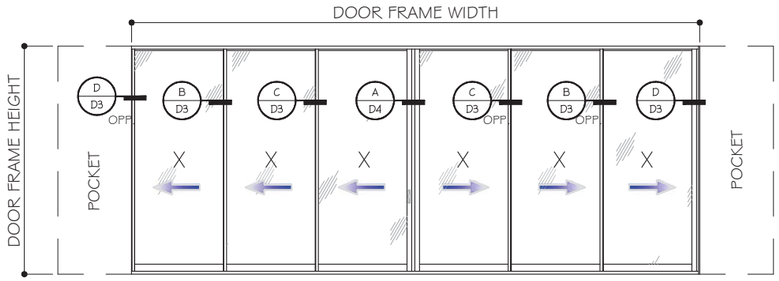
APPROVED CONFIGURATION POCKETED DOORS



PXXX (SHOWN)
XXXP



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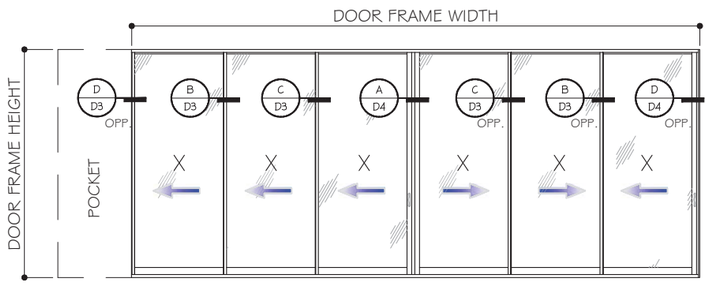

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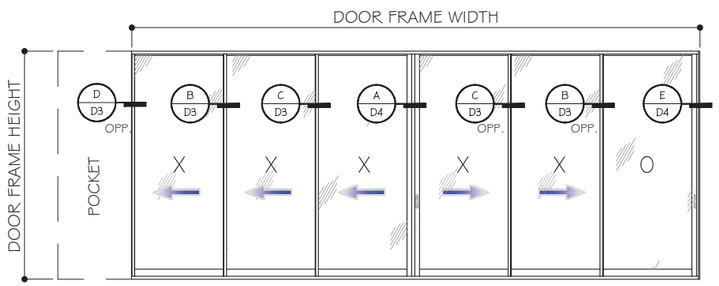
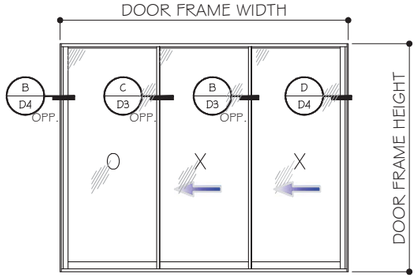
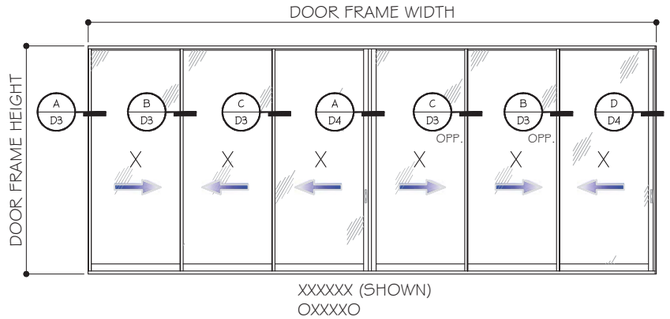


PXXXXXO (SHOWN)
OXXXXXP



OXX (SHOWN)
XXO
XXX (& REVERSE)



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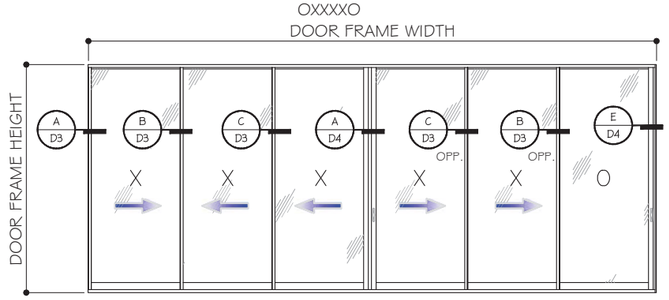

XXXXXO (SHOWN)
OXXXXO

NOTES:
1. REFER TO ELEVATION FOR MAX. DOOR UNIT HEIGHT & WIDTH
2. LOWER DESIGN PRESSURE USING OTHER CHART CONTROLS.
3. POCKETS ARE NOT PART OF THIS APPROVAL AND ARE TO BE REVIEWED BY AHJ.

NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET 05 TO 07 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET 05 TO 07.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET 10.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET 08. CAPACITY FOR ANCHORED JAMB SEE SHEET 09.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

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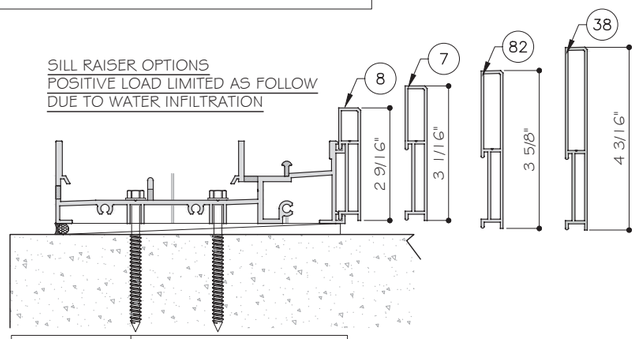
SGD CAPACITIES W/ DRY GLAZED GLASS OPTIONS (PSF)					
SGD PANEL SIZE		LAMINATED GLASS		INSUL-LAM. GLASS	
		INTERLOCK LEVEL 1		INTERLOCK LEVEL 1	
AVE.PANEL W. (INCH)	FRAME H. (INCH)	G1A/G7A	G2A	G3A/G8A	G4A
36	96	+85/-90	+85/-90	+85/-90	+85/-90
42		+85/-90	+85/-90	+85/-90	+85/-90
48		+85/-90	+85/-90	+85/-90	+85/-90
54		+85/-90	+90/-90	+85/-90	-
60		+85/-90	-	+85/-90	-
36	102	+85/-90	+85/-90	+85/-90	+85/-90
42		+85/-90	+85/-90	+85/-90	+85/-90
48		+85/-90	+85/-90	+85/-90	+85/-90
54		+85/-90	-	+85/-90	-
36	108	+85/-90	+85/-90	+85/-90	+85/-90
42		+85/-90	+85/-90	+85/-90	+85/-90
48		+85/-90	+85/-90	+85/-90	+85/-90
53		+85/-90	-	+85/-90	-
36	114	+85/-90	+85/-90	+85/-90	+85/-90
42		+85/-90	+85/-90	+85/-90	+85/-90
48		+85/-90	-	+85/-90	-
50		+85/-90	-	+85/-90	-
36	120	+85/-90	+85/-90	+85/-90	+85/-90
42		+85/-90	+85/-90	+85/-90	+85/-90
48		+85/-90	-	+85/-90	-

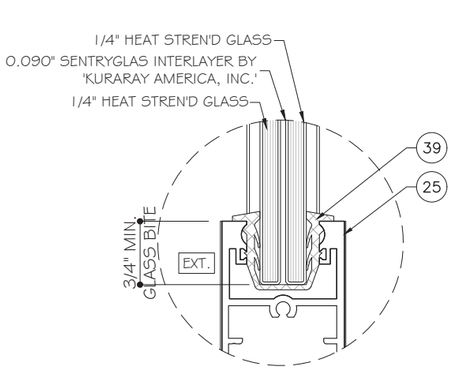
NOTE: CHART FOR ANCHORED JAMB OPTIONS.
SEE SHEET 09 FOR JAMB ANCHOR OPTIONS AND SPACING.

D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

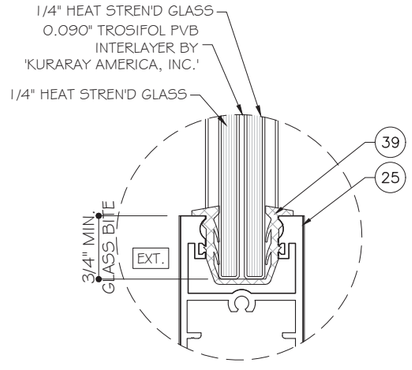
$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$$



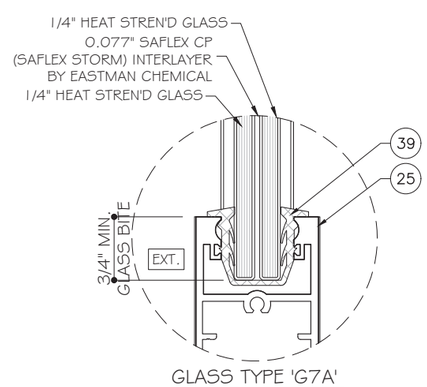
SILL RAISER	POSITIVE LOAD (PSF)
(8)	53
(7)	67
(82)	80
(38)	90



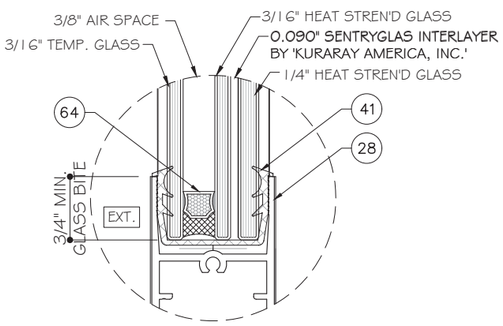
GLASS TYPE 'G1A'
9/16" NOMINAL OVERALL



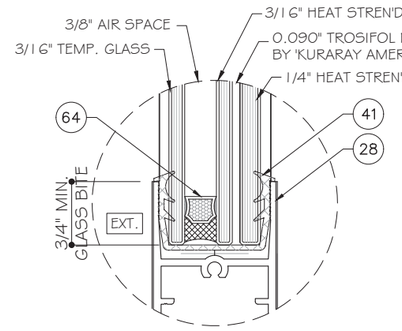
GLASS TYPE 'G2A'
9/16" NOMINAL OVERALL



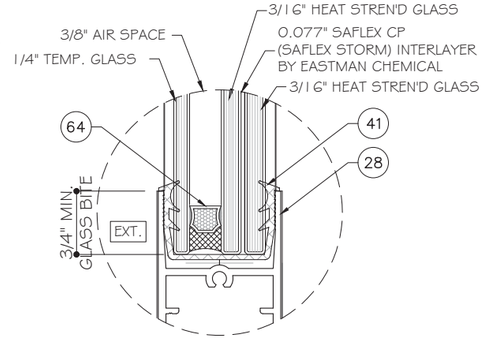
GLASS TYPE 'G7A'
9/16" NOMINAL OVERALL



GLASS TYPE 'G3A'
1 1/8" NOMINAL OVERALL



GLASS TYPE 'G4A'
1 1/8" NOMINAL OVERALL

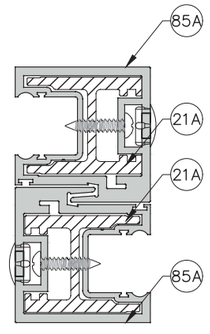


GLASS TYPE 'G8A'
1 1/8" NOMINAL OVERALL

LAMINATED GLASS

LEVEL 1

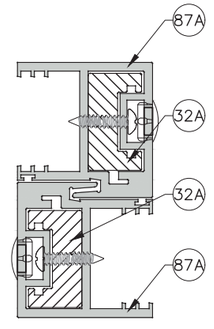
STD. INTERLOCKS W/ REINF.



INSULATED-LAMINATED GLASS

LEVEL 1

STD. INTERLOCKS W/ REINF.



NOTE:
GLASS COMPLIES WITH ASTM E1300-16
(3 SEC. GUSTS).

NOTE:
PARTS (39) (41) ARE ALSO USED AS
SETTING BLOCK.

YIPING WANG, PE
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G1

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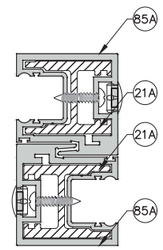
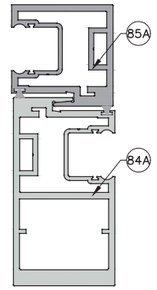
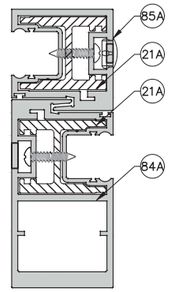
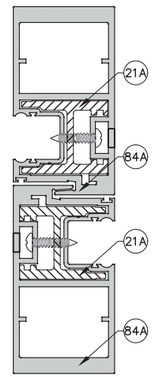
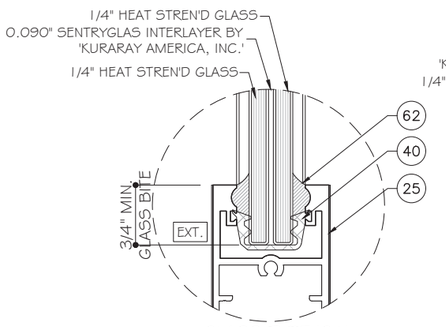
05 OF 18

SGD CAPACITIES W/ WET GLAZED LAMINATED GLASS OPTIONS (PSF)

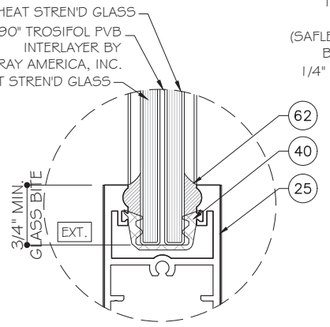
SGD PANEL SIZE		INTERLOCK LEVEL 1			INTERLOCK LEVEL 2		INTERLOCK LEVEL 3	
AVE. PANEL W. (INCH)	FRAME H. (INCH)	G1	G2	G7	G1	G7	G1	G7
36	102	+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
42		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
48		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
54		+85/-100		+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
60		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
66		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
72		-	-	-	+65/-78	-	+85/-102	-
36	108	+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
42		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
48		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
54		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
60		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
66		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
72		-	-	-	+65/-78	-	+85/-102	-
36	114	+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
42		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
48		+85/-100		+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
54		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
60		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
66		-	-	-	+65/-78	-	+85/-102	-
72		-	-	-	+65/-78	-	+85/-102	-
36	120	+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
42		+85/-100	85/-90	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
48		+85/-100	-	+85/-90	+85/-100	+85/-90	+90/-150	+90/-90
54		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
60		+85/-100	-	+85/-90	+85/-100	+85/-90	+85/-102	+85/-90
66		-	-	-	+65/-78	-	+85/-102	-
72		-	-	-	+65/-78	-	+85/-102	-
36	126	-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
42		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
48		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
54		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
60		-	-	-	+65/-78	-	+85/-102	-
66		-	-	-	+65/-78	-	+85/-102	-
36	132	-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
42		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
48		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
54		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
60		-	-	-	+65/-78	-	+85/-102	
36	138	-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
42		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
48		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
54		-	-	-	+65/-78	-	+85/-102	-
60		-	-	-	+65/-78	-	+85/-102	-
36	144	-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
42		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
48		-	-	-	+65/-78	+65/-78	+85/-102	+85/-90
54		-	-	-	+65/-78	-	+85/-102	-
60		-	-	-	+65/-78	-	+85/-102	-

NOTE: CHART FOR ANCHORED JAMB OPTIONS.
SEE SHEET 09 FOR JAMB ANCHOR OPTIONS AND SPACING.

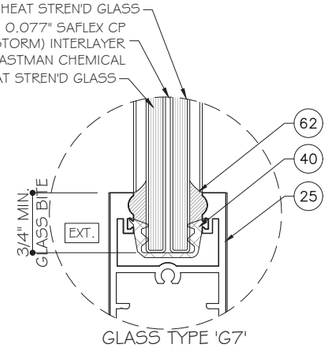
	LEVEL 1	LEVEL 2	LEVEL 3	
	STD. INTERLOCKS W/ REINF.	BELLY INTERLOCKS W/O REINF.	BELLY INTERLOCKS W/ REINF.	
			OPTION 1	OPTION 2
LAMINATED GLASS				



GLASS TYPE 'G1'
9/16" NOMINAL OVERALL



GLASS TYPE 'G2'
9/16" NOMINAL OVERALL



GLASS TYPE 'G7'
9/16" NOMINAL OVERALL

NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS).

NOTE:
PARTS (40) ARE ALSO USED AS SETTING BLOCK.

SEE SHEET 05 FOR SILL RAISER OPTIONS.

D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

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

YIPING WANG PE
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 16th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev. No.	Date	Drawn By	Description
R1	02.04.2024	James	NEW APPLICATION

Drawn Date: 02.04.2024
Scale: AS SHOWN

DRAWING NO.
AD23-81

G2

Sheet No.
06 OF 18

SGD CAPACITIES W/ WET GLAZED INSULATED LAMINATED GLASS OPTIONS (PSF)

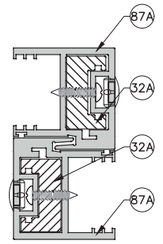
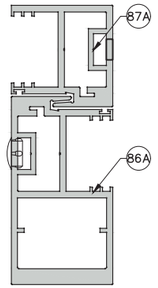
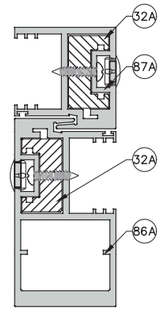
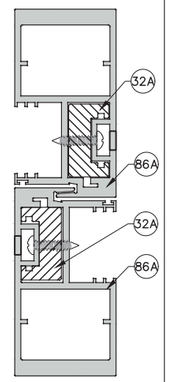
SGD PANEL SIZE		INTERLOCK LEVEL 1				INTERLOCK LEVEL 2			INTERLOCK LEVEL 3	
AVE. PANEL W. (INCH)	FRAME H. (INCH)	G3	G4/GG	G5	G8	G3	G5	G8	G3	G5
36	102	+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
42		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
48		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
54		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-132	+90/-102
60		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+85/-102	+85/-102
66		+85/-100	-	-	+85/-90	+85/-100	-	+85/-90	+85/-102	-
72		-	-	-	-	+65/-78	-	-	+85/-102	-
36	108	+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
42		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
48		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
54		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+85/-102	+85/-102
60		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+85/-102	+85/-102
66		+85/-100	-	-	+85/-90	+85/-100	-	+85/-90	+85/-102	-
72		-	-	-	-	+65/-78	-	-	+85/-98.4	-
36	114	+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
42		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
48		+85/-100		+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-144	+90/-102
54		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+85/-102	+85/-102
60		+85/-100	-	-	+85/-90	+85/-100	-	+85/-90	+85/-102	-
66		-	-	-	-	+65/-78	-	-	+85/-102	-
72		-	-	-	-	+65/-78	-	-	+85/-102	-
36	120	+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
42		+85/-100	85/-90	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-150	+90/-102
48		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+90/-140	+90/-102
54		+85/-100	-	+85/-100	+85/-90	+85/-100	+85/-100	+85/-90	+85/-102	+85/-102
60		+85/-100	-	-	+85/-90	+85/-100	-	+85/-90	+85/-101	-
66		-	-	-	-	+65/-78	-	-	+85/-90.9	-
72		-	-	-	-	+65/-78	-	-	+85/-86	-
36	126	-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
42		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
48		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
54		-	-	-	-	+65/-78	-	+65/-78	+85/-102	-
60		-	-	-	-	+65/-78	-	-	+85/-96	-
66		-	-	-	-	+65/-78	-	-	+85/-86	-
36	132	-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
42		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
48		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
54		-	-	-	-	+65/-78	-	+65/-78	+85/-102	-
60		-	-	-	-	+65/-78	-	-	+85/-91.8	-
36	138	-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
42		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
48		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
54		-	-	-	-	+65/-78	-	-	+85/-102	-
60		-	-	-	-	+65/-78	-	-	+85/-88.5	-
36	144	-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
42		-	-	-	-	+65/-78	+65/-78	+65/-78	+85/-102	+85/-102
48		-	-	-	-	+65/-78	-	+65/-78	+85/-102	-
54		-	-	-	-	+65/-78	-	-	+85/-102	-
60		-	-	-	-	+65/-78	-	-	+85/-85.8	-

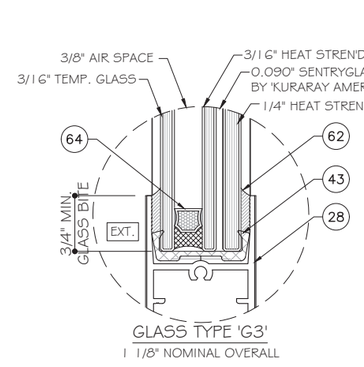
D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

AVE. PANEL WIDTH = FRAME WIDTH / # OF PANELS

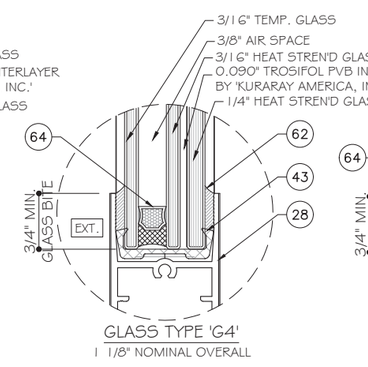
SEE SHEET 05 FOR SILL RAISER OPTIONS.

NOTE: CHART FOR ANCHORED JAMB OPTIONS. SEE SHEET 09 FOR JAMB ANCHOR OPTIONS AND SPACING.

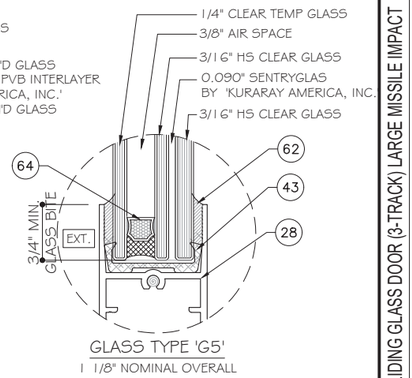
	LEVEL 1	LEVEL 2	LEVEL 3	
	STD. INTERLOCKS W/ REINF.	BELLY INTERLOCKS W/O REINF.	BELLY INTERLOCKS W/ REINF.	
			OPTION 1	OPTION 2
INSULATED-LAMINATED GLASS				



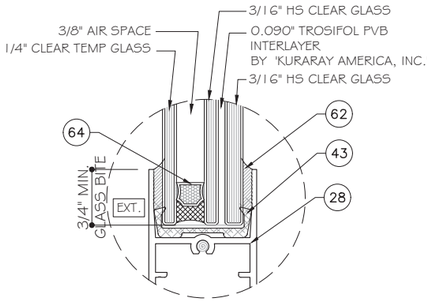
GLASS TYPE 'G3'
1 1/8" NOMINAL OVERALL



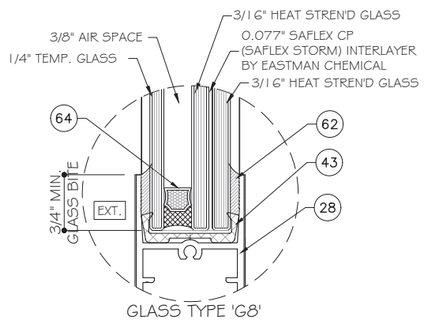
GLASS TYPE 'G4'
1 1/8" NOMINAL OVERALL



GLASS TYPE 'G5'
1 1/8" NOMINAL OVERALL



GLASS TYPE 'G6'
1 1/8" NOMINAL OVERALL



GLASS TYPE 'G8'
1 1/8" NOMINAL OVERALL

NOTE:
PARTS (43) ARE ALSO USED AS SETTING BLOCK.

NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS).

YIPING WANG
LICENSE NUMBER
No 55883
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 16th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev. No.	Date	Drawn By	Description
R.1	02.04.2024	James	NEW APPLICATION

Drawn Date: 02.04.2024
Scale: AS SHOWN

DRAWING NO.
AD23-81

G3

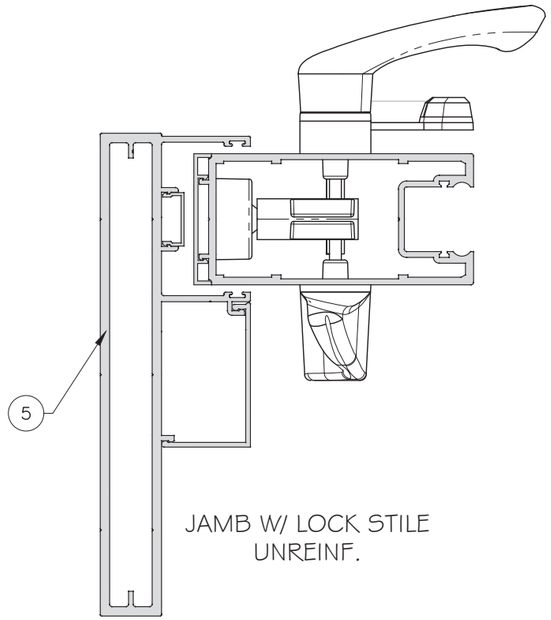
Sheet No.
07 OF 18

SGD W/ FREE STANDING JAMB CAPACITY CHART - PSF

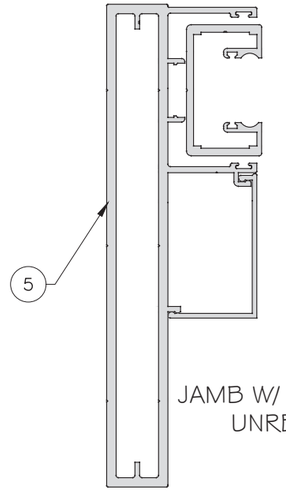
SGD PANEL SIZE		LAMINATED GLASS				INSUL-LAM. GLASS			
		INTERLOCK LEVEL I				INTERLOCK LEVEL I			
AVE. PANEL WIDTH	PANEL HEIGHT	G1A/G7A (DRY GLAZED) G1/G7/G5 (WET GLAZED)		G2A (DRY GLAZED) G2 (WET GLAZED)		G3A/G8A (DRY GLAZED) G3/G8 (WET GLAZED)		G4A (DRY GLAZED) G4/G6 (WET GLAZED)	
INCH	INCH	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
36	84	65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
42		65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
48		65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
54		65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
60		65.0	77.3	65.0	77.3	65.0	77.3	65.0	77.3
36	90	65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
42		65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
48		65.0	77.2	65.0	77.2	65.0	77.2	65.0	77.2
54		65.0	70.6	65.0	70.6	65.0	70.6	65.0	70.6
60		65.0	65.6	-	-	65.0	65.6	-	-
36	96	65.0	78.0	65.0	78.0	65.0	78.0	65.0	78.0
42		65.0	75.0	65.0	75.0	65.0	75.0	65.0	75.0
48		65.0	67.0	65.0	67.0	65.0	67.0	65.0	67.0
54		61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
60		56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
36	102	65.0	75.7	65.0	75.7	65.0	75.7	65.0	75.7
42		65.0	65.9	65.0	65.9	65.0	65.9	65.0	65.9
48		58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
54		53.3	53.3	-	-	53.3	53.3	-	-
36	108	65.0	67.2	65.0	67.2	65.0	67.2	65.0	67.2
42		58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
48		52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
53		48.0	48.0	-	-	48.0	48.0	-	-
36	114	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
42		52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
48		46.3	46.3	-	-	46.3	46.3	-	-
50		44.7	44.7	-	-	44.7	44.7	-	-
36	120	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
42		46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
48		41.5	41.5	-	-	41.5	41.5	-	-

AVE. PANEL WIDTH = FRAME WIDTH / # OF PANELS

NOTE:
GLASS OPTIONS SEE SHEET 05 TO 07 FOR DETAILS.
SILL RAISER SEE SHEET 05 FOR OPTIONS



JAMB W/ LOCK STILE
UNREINF.

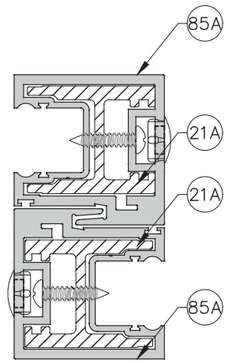


JAMB W/ FIX STILE
UNREINF.

LAMINATED GLASS

LEVEL I

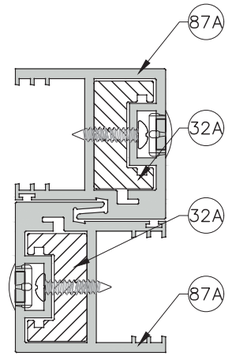
STD. INTERLOCKS W/ REINF.



INSULATED-LAMINATED GLASS

LEVEL I

STD. INTERLOCKS W/ REINF.



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

YIPING WANG
FLORIDA REGISTRATION
#55983
C.A.N. 28877
LICENSE
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 16th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev. No.	Date	Drawn By	Description
R1	02.04.2024	James	NEW APPLICATION

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J1

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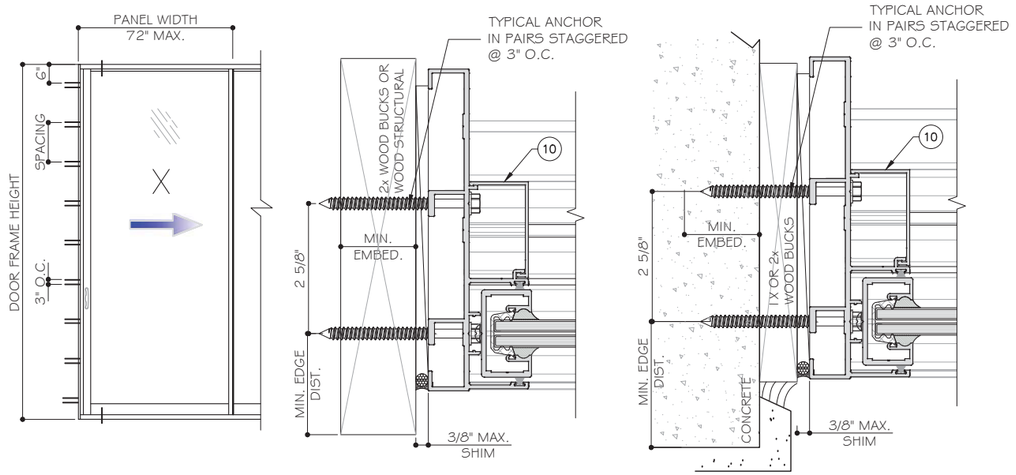
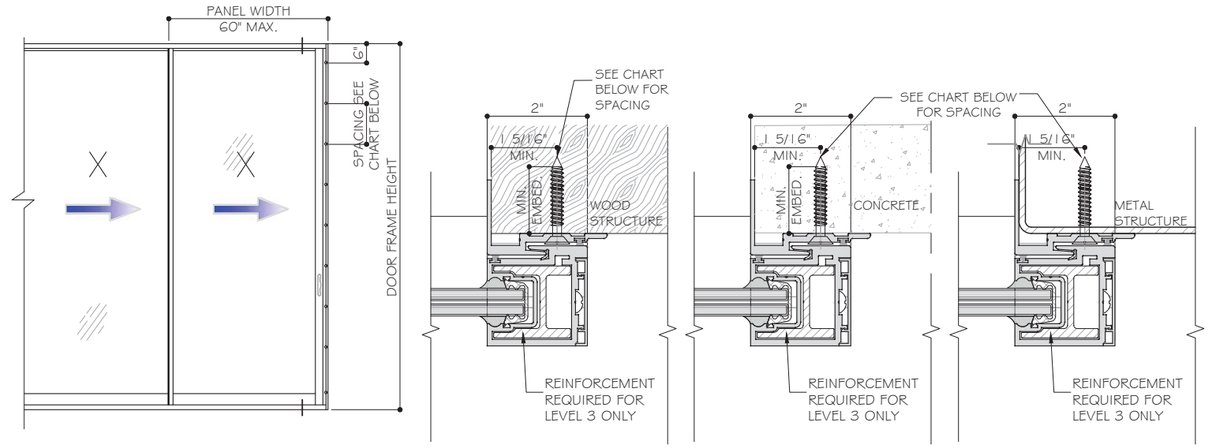
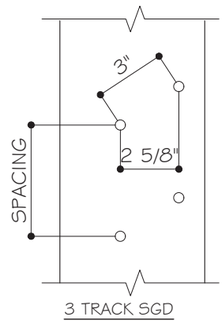




JAMB ANCHOR CHART				
ANCHOR TYPE		SUBSTRATE	MAX. SHIM	ANCHOR SPACING
A	1/4" KWIKCON	CONCRETE	1/4"	18" O.C.
A	1/4" KWIKCON	WOOD/ CONCRETE/ BLOCK	3/8"	12" O.C.
B	1/4" ULTRACON+	CONCRETE	1/4"	18" O.C.
B	1/4" ULTRACON+	WOOD/ CONCRETE/ BLOCK	3/8"	12" O.C.
C	1/4" DRIL FLEX	1/8" THK. METAL (6063-T5)	1/4"	18" O.C.
C	1/4" DRIL FLEX		3/8"	12" O.C.



JAMB ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON+ BY HILTI (Fu=138 KSI, Fy=137 KSI)
- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD STRUCTURE
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO CONCRETE OR MASONRY
- 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE OR MASONRY

TYPE "B": 1/4" DIA. ULTRACON+ BY DEWALT(Fu=164 KSI, Fy=148 KSI)
- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD STRUCTURE
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO CONCRETE OR MASONRY
- 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE OR MASONRY

TYPE "C": 1/4" DIA. ELCO DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy=36KSI, MIN.)
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

CONCRETE: 3000 psi MIN.
MASONRY: C90 BLOCK, f'c=2000 psi MIN.
WOOD SG = 0.55 MIN.

NOTE:
1X OR 2X WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

POCKET JAMB ANCHOR CHART			
ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING
			W≤60"
B2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"
C2(#14 DRILFLEX)	1/4"	ALUM.6063-T6	16"
C2(#14 DRILFLEX)	1/8"	STL	16"
C3(#14 SMS)	1 1/2"	WOOD SG=0.55	16"

JAMB ANCHOR TYPES:

TYPE "B2": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED INTO f'c=3 KSI MIN. CONCRETE
1 5/16" MIN. EDGE DISTANCE

TYPE "C2": 1/4" DIA. ELCO DRIL FLEX SCREW (Fu=120 KSI,FY=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 1/4" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. (Fy=36KSI, MIN.)

TYPE "C3": 1/4" DIA. SMS (Fu=74 KSI, Fy=57 KSI)
1 1/2" MIN. EMBED INTO WOOD STRUCTURE (SG=0.55 MIN.)
1" MIN. EDGE DISTANCE

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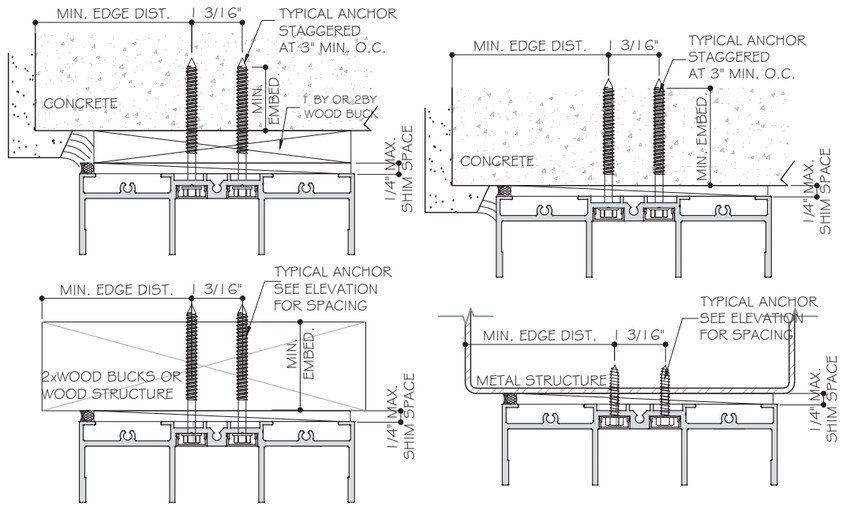
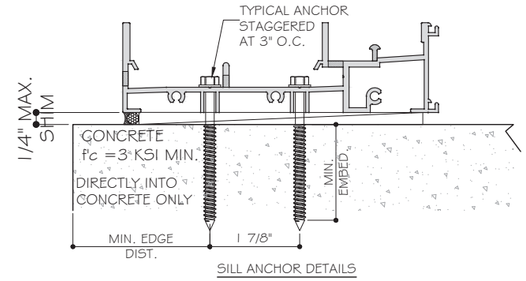
SGD PANEL SIZE		HEAD ANCHOR CAPACITY - PSF						SILL ANCHOR CAPACITY - PSF		
		ANCHOR TYPE "A", "B","C", "D1"				ANCHOR TYPE "D", "E"		ANCHOR TYPE "A" & "B"		
AVE. PANEL WIDTH	FRAME HEIGHT	4	6	8	10	4	6	4	6	8
(INCH)	(INCH)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)	(+/-)
36	96	79.0	118.5	150.0	150.0	150.0	150.0	126.3	150.0	150.0
42		67.7	101.6	135.4	150.0	131.4	150.0	108.3	150.0	150.0
48		59.3	88.9	118.5	148.1	115.0	150.0	94.8	142.1	150.0
54		52.7	79.0	105.3	131.7	102.2	150.0	84.2	126.3	150.0
60		47.4	71.1	94.8	118.5	92.0	138.0	75.8	113.7	150.0
66		43.1	64.6	86.2	107.7	83.6	125.5	68.9	103.4	137.8
72		39.5	59.3	79.0	98.8	76.7	115.0	63.2	94.8	126.3
36	102	74.4	111.5	148.7	150.0	144.3	150.0	118.9	150.0	150.0
42		63.7	95.6	127.5	150.0	123.7	150.0	101.9	150.0	150.0
48		55.8	83.6	111.5	139.4	108.2	150.0	89.2	133.8	150.0
54		49.6	74.4	99.1	123.9	96.2	144.3	79.3	118.9	150.0
60		44.6	66.9	89.2	111.5	86.6	129.9	71.3	107.0	142.7
66		40.6	60.8	81.1	101.4	78.7	118.1	64.9	97.3	129.7
72		37.2	55.8	74.4	92.9	72.2	108.2	59.5	89.2	118.9
36	108	70.2	105.3	140.4	150.0	136.3	150.0	112.3	150.0	150.0
42		60.2	90.3	120.4	150.0	116.8	150.0	96.3	144.4	150.0
48		52.7	79.0	105.3	131.7	102.2	150.0	84.2	126.3	150.0
54		46.8	70.2	93.6	117.0	90.9	136.3	74.9	112.3	149.7
60		42.1	63.2	84.3	105.3	81.8	122.7	67.4	101.1	134.8
66		38.3	57.5	76.6	95.8	74.3	111.5	61.3	91.9	122.5
72		35.1	52.7	70.2	87.8	68.1	102.2	56.1	84.2	112.3
36	114	66.5	99.8	133.1	150.0	129.1	150.0	106.4	150.0	150.0
42		57.0	85.5	114.0	142.6	110.7	150.0	91.2	136.8	150.0
48		49.9	74.8	99.8	124.7	96.8	145.3	79.8	119.7	150.0
54		44.4	66.5	88.7	110.9	86.1	129.1	70.9	106.4	141.8
60		39.9	59.9	79.8	99.8	77.5	116.2	63.8	95.7	127.7
66		36.3	54.4	72.6	90.7	70.4	105.6	58.0	87.0	116.1
72		33.3	49.9	66.5	83.2	64.6	96.8	53.2	79.8	106.4
36	120	63.2	94.8	126.4	150.0	122.7	150.0	101.1	150.0	150.0
42		54.2	81.3	108.3	135.4	105.1	150.0	86.6	129.9	150.0
48		47.4	71.1	94.8	118.5	92.0	138.0	75.8	113.7	150.0
54		42.1	63.2	84.3	105.3	81.8	122.7	67.4	101.1	134.8
60		37.9	56.9	75.8	94.8	73.6	110.4	60.6	91.0	121.3
66		34.5	51.7	68.9	86.2	66.9	100.4	55.1	82.7	110.3
72		31.6	47.4	63.2	79.0	61.3	92.0	50.5	75.8	101.1
36	126	60.2	90.3	120.4	150.0	116.8	150.0	96.3	144.4	150.0
42		51.6	77.4	103.2	129.0	100.1	150.0	82.5	123.8	150.0
48		45.1	67.7	90.3	112.9	87.6	131.4	72.2	108.3	144.4
54		40.1	60.2	80.3	100.3	77.9	116.8	64.2	96.3	128.3
60		36.1	54.2	72.2	90.3	70.1	105.1	57.8	86.6	115.5
66		32.8	49.2	65.7	82.1	63.7	95.6	52.5	78.8	105.0
36	132	57.5	86.2	114.9	143.6	111.5	150.0	91.9	137.8	150.0
42		49.2	73.9	98.5	123.1	95.6	143.4	78.8	118.1	150.0
48		43.1	64.6	86.2	107.7	83.6	125.5	68.9	103.4	137.8
54		38.3	57.5	76.6	95.8	74.3	111.5	61.3	91.9	122.5
60		34.5	51.7	68.9	86.2	66.9	100.4	55.1	82.7	110.3
36	138	55.0	82.4	109.9	137.4	106.7	150.0	87.9	131.8	150.0
42		47.1	70.7	94.2	117.8	91.4	137.1	75.3	113.0	150.0
48		41.2	61.8	82.4	103.0	80.0	120.0	65.9	98.9	131.8
54		36.6	55.0	73.3	91.6	71.1	106.7	58.6	87.9	117.2
60		33.0	49.5	65.9	82.4	64.0	96.0	52.7	79.1	105.5
36	144	52.7	79.0	105.3	131.7	102.2	150.0	84.2	126.3	150.0
42		45.1	67.7	90.3	112.9	87.6	131.4	72.2	108.3	144.4
48		39.5	59.3	79.0	98.8	76.7	115.0	63.2	94.8	126.3
54		35.1	52.7	70.2	87.8	68.1	102.2	56.1	84.2	112.3
60		31.6	47.4	63.2	79.0	61.3	92.0	50.5	75.8	101.1



HEAD ANCHOR DETAILS



SILL ANCHOR DETAILS

ANCHOR TYPES:

TYPE "A": /4" DIA. HILTI KWIKCON+ (Fu=138 KSI, Fy=137 KSI)
1 1/2" MIN. EMBED INTO SG=0.55 MIN. WOOD.
OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE
OR DIRECTLY 1 3/4" EMBED INTO CONCRETE f'c = 3ksi MIN.

TYPE "B": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 1/2" MIN. EMBED INTO SG=0.55 MIN. WOOD.
OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE
1 3/4" MIN. EMBED INTO CONCRETE f'c = 3ksi MIN.

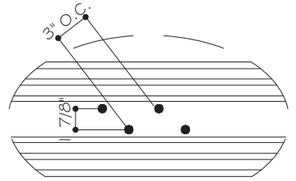
TYPE "C": 1/4" DIA. ELCO DRIL FLEX SCREW (Fu=120 ksi, Fy= 92 ksi).
INTO 1/8 THK.MIN. METAL STRUCTURE 6063-T5 MIN. OR A36 STEEL

TYPE "D1": 5/16" DIA. DEWALT ULTRACON (Fu=177 ksi, Fy=155 ksi)
1 1/2" MIN. EMBED INTO SG=0.55 WOOD.
OR THRU 1X OR 2X WOOD BUCKS INTO CONCRETE f'c=3000 psi. MIN.

TYPE "D": 5/16" DIA. DEWALT ULTRACON (Fu=177 ksi, Fy=155 ksi)
1 3/4" MIN. EMBED INTO CONCRETE f'c = 3500 psi MIN.

TYPE "E": 5/16" DIA. ELCO DRIL FLEX SCREW (Fu=120 ksi, Fy= 92 ksi).
INTO 1/8 THK.MIN. METAL STRUCTURE 6063-T5 MIN.
OR A36 STEEL.
(3) THREAD MIN.PENETRATION BEYOND METAL.
SUBSTRATE STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.



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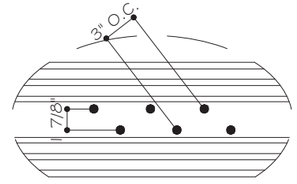

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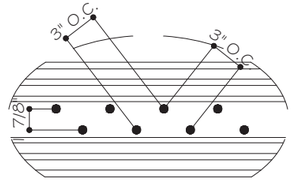

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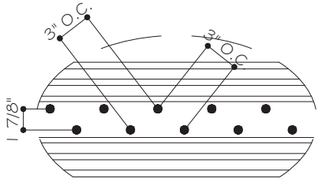

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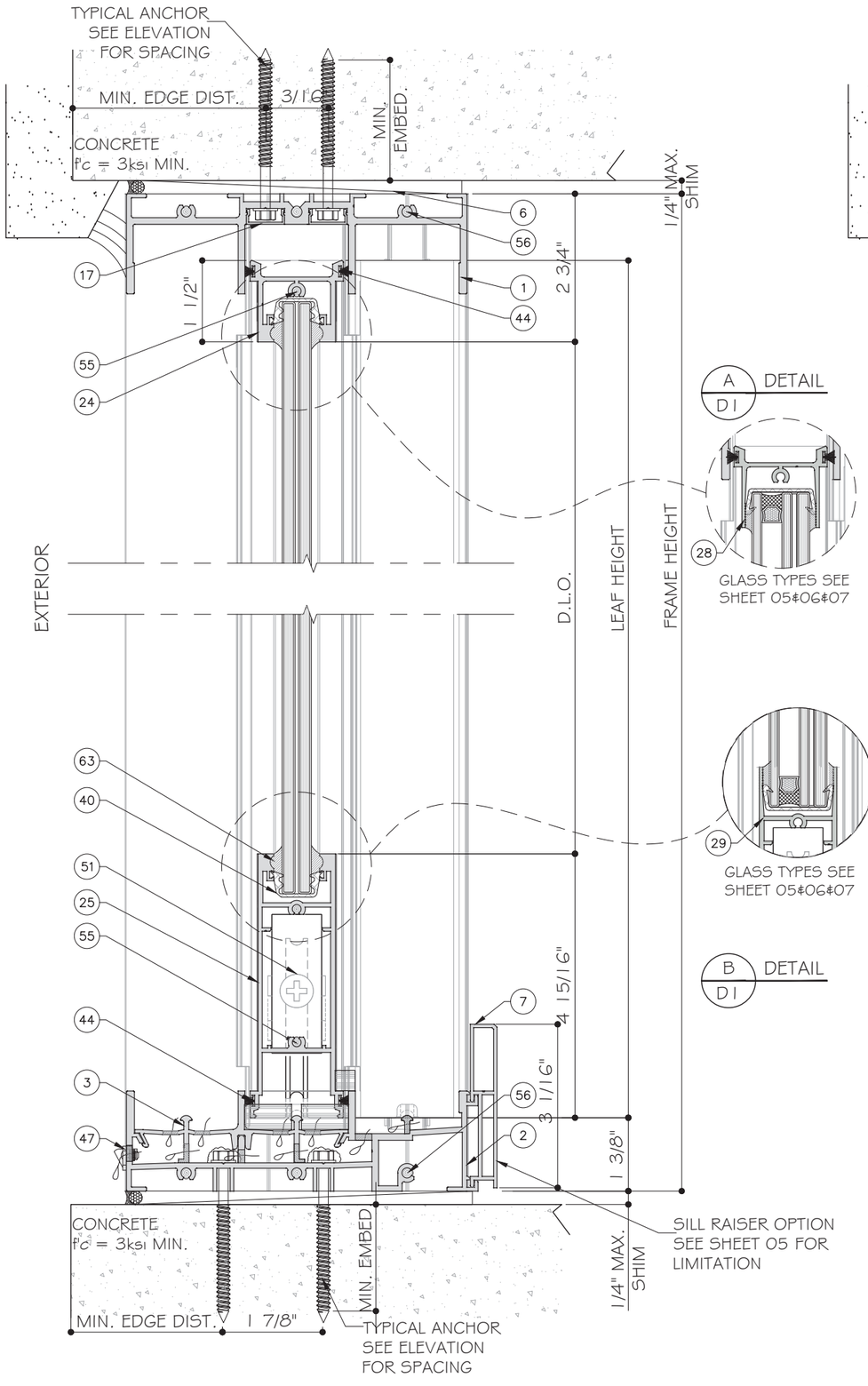

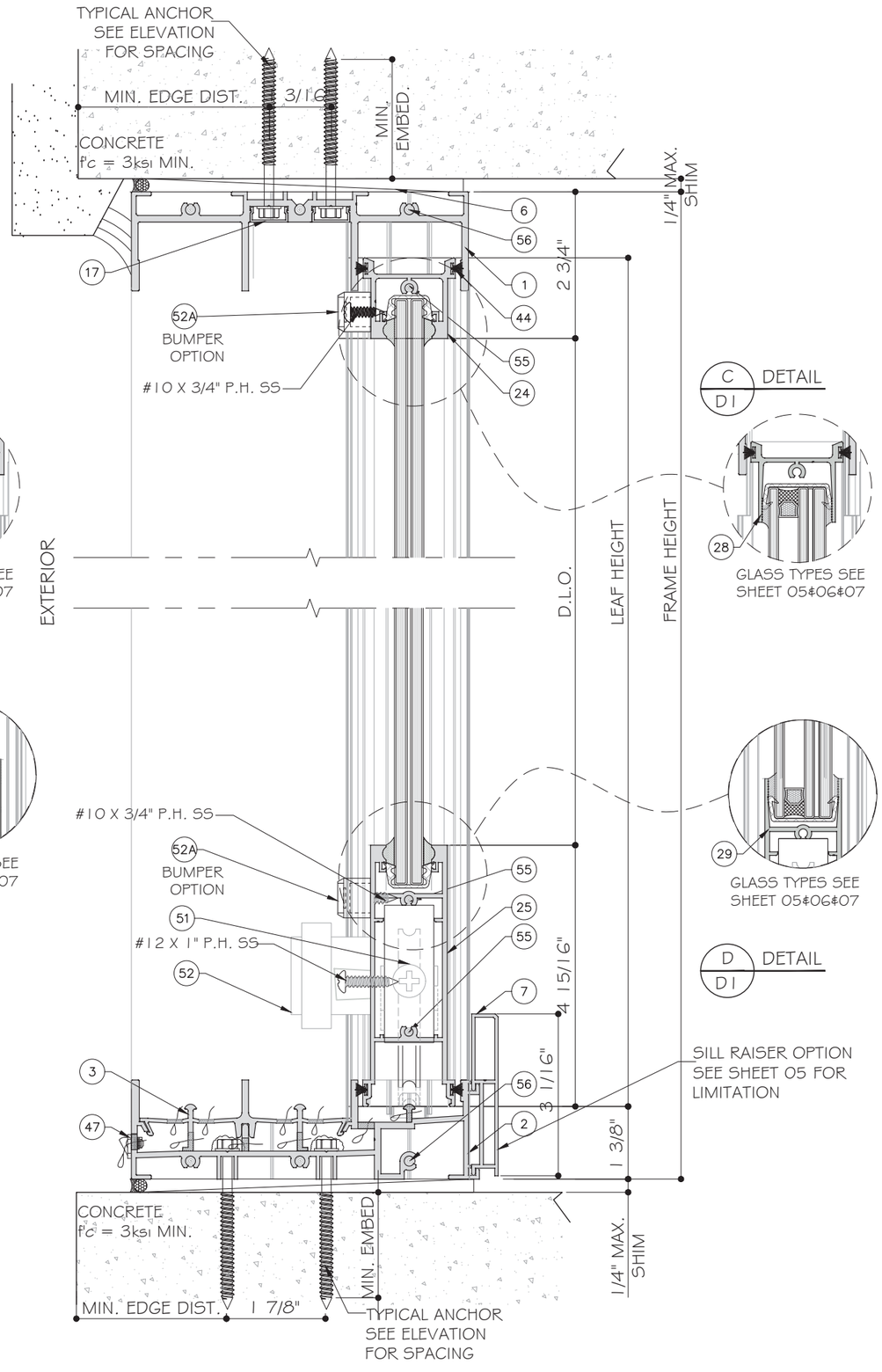

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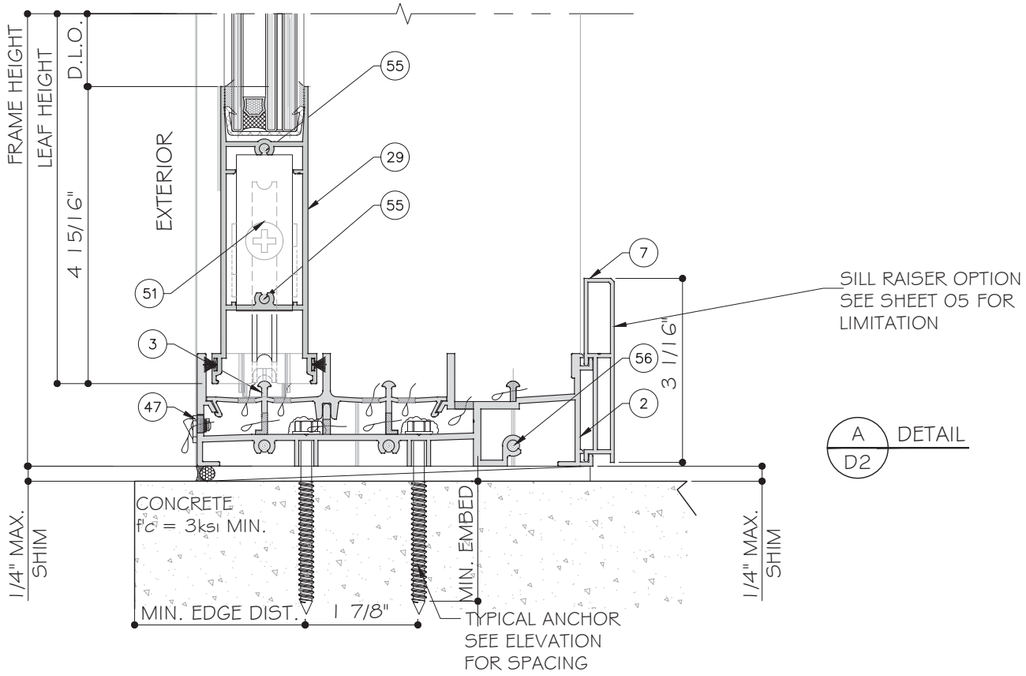
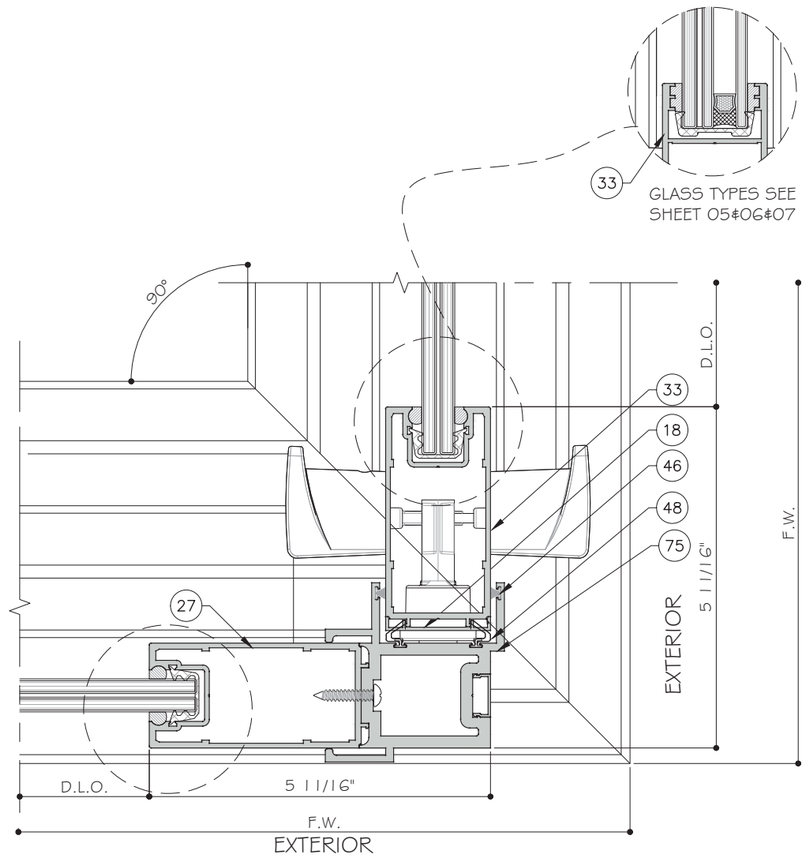
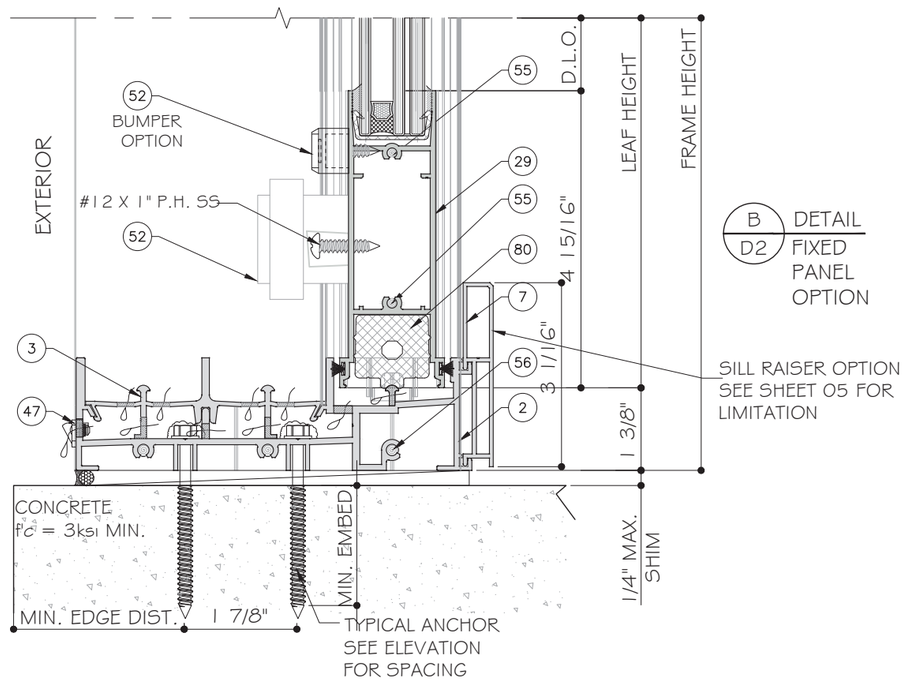


A / D2 DETAIL



C / D2 DETAIL



B / D2 DETAIL FIXED PANEL OPTION

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS SEE LIMITATION ON SHEET 5.

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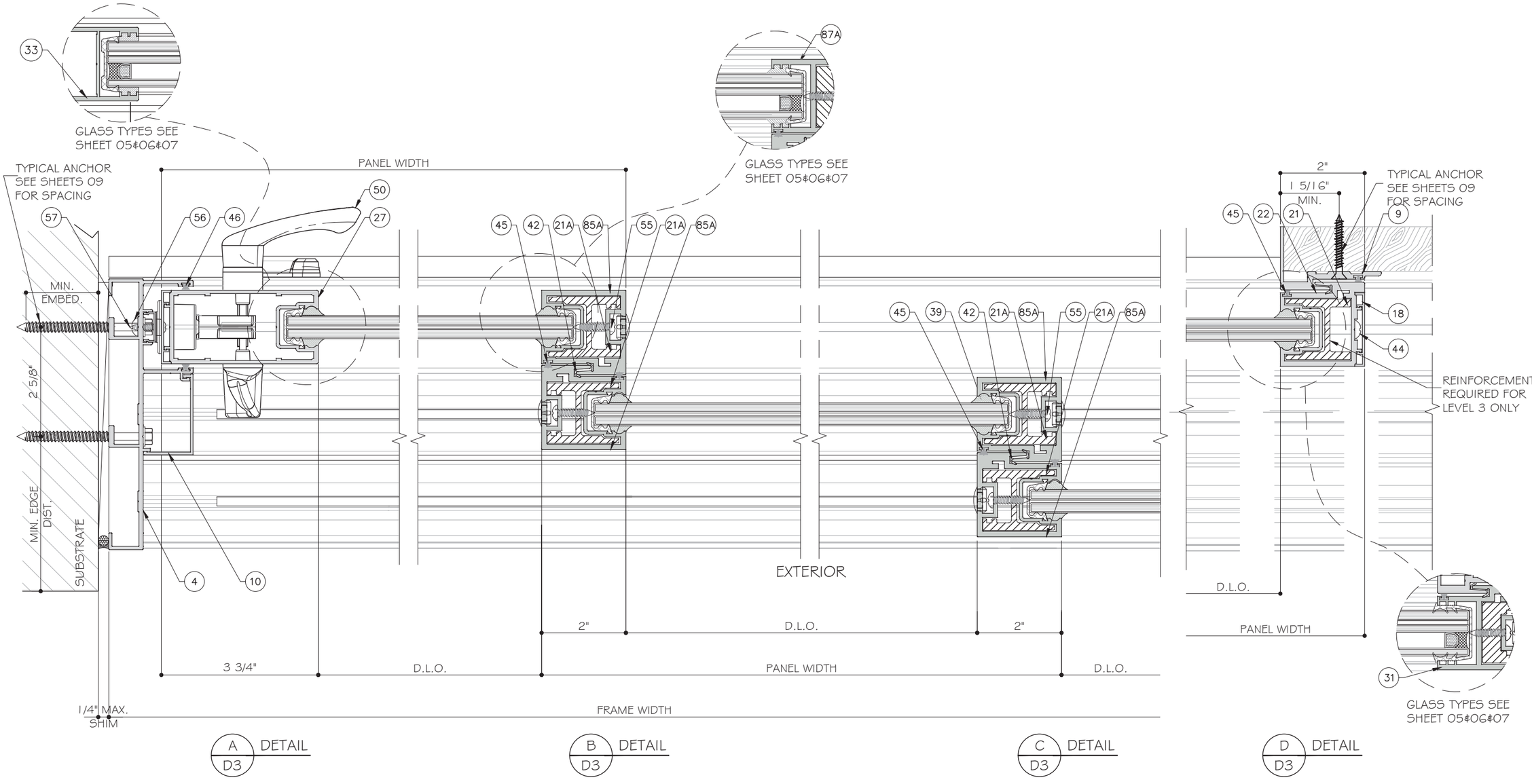

A D3 DETAIL

B D3 DETAIL

C D3 DETAIL

D D3 DETAIL

STANDARD INTERLOCK W/ REINF. (LEVEL 1) SHOWN.
SEE SHEET 06 FOR LEVEL 2 AND 3 INTERLOCK.
SEE SHEET 04 FOR CORNER STILE OPTION AND LIMITATION.

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LICENSE No 55983

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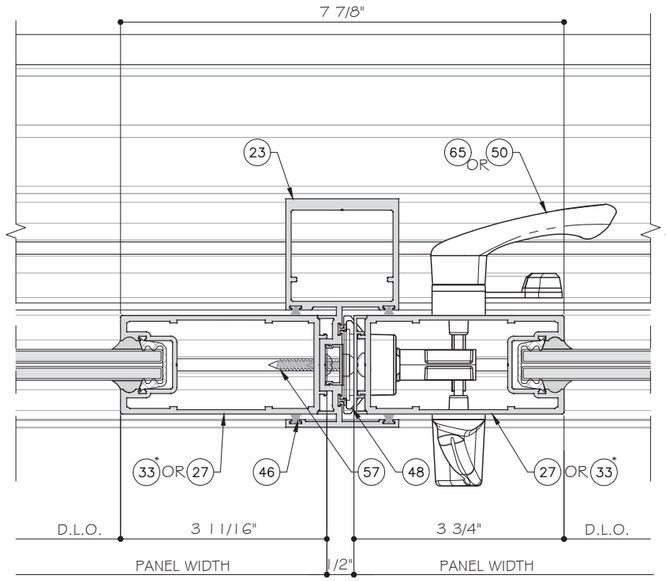
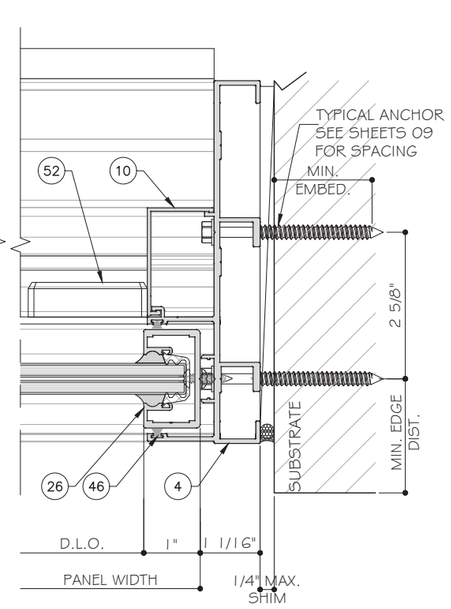
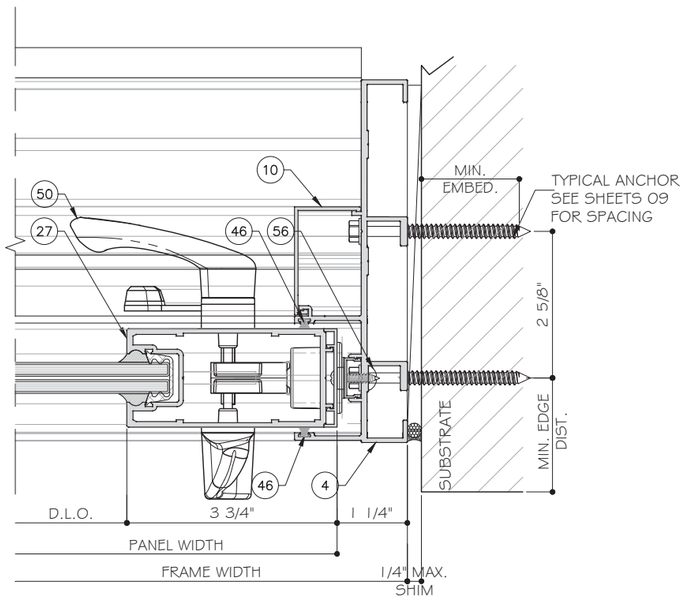


EXTERIOR

A / D4 DETAIL

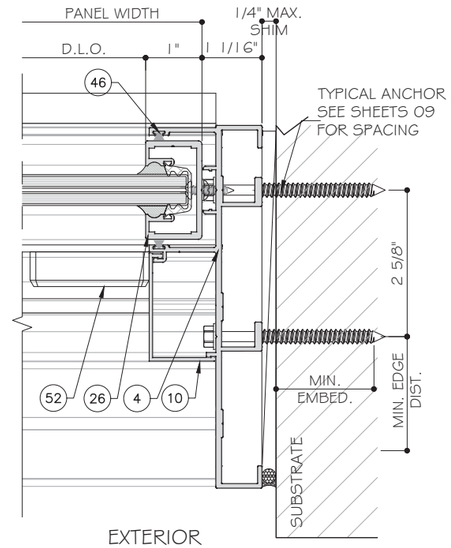


B / D4 DETAIL



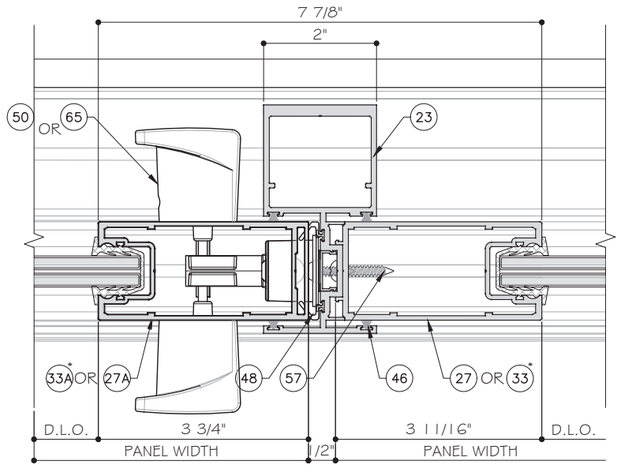
EXTERIOR

C / D4 DETAIL



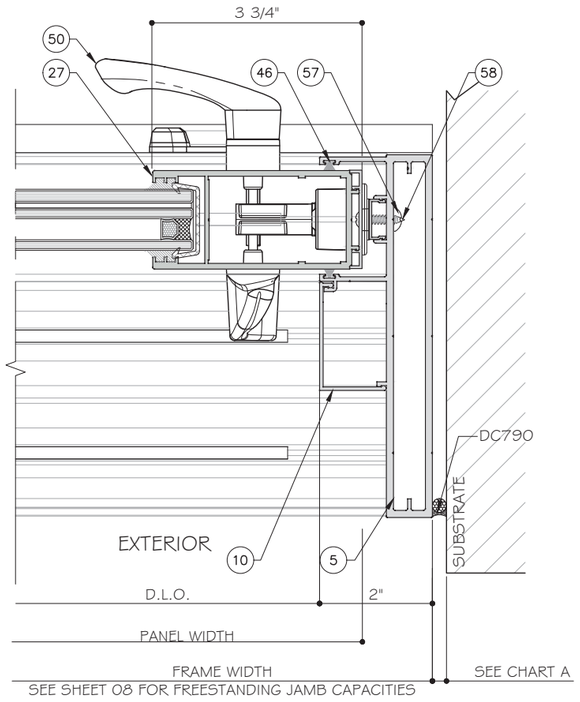
EXTERIOR

E / D4 DETAIL



EXTERIOR

A / D4 DETAIL OPTION



SEE SHEET 08 FOR FREESTANDING JAMB CAPACITIES

D / D4 DETAIL

*NOTE: PART 33 & 33A USED FOR INSULATED LAMINATED GLASS.

CHART A

FH	MIN. GAP	MAX.
96"	9/16"	3/4"
108"	5/8"	3/4"
120"	11/16"	3/4"
132"	3/4"	7/8"
144"	13/16"	7/8"

LOCK STILE OPTION 1 SHOWN. SEE SHEET 03 FOR OPTION 2.

YIPING WANG
LICENSE
No 55983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

STATE OF FLORIDA REGISTRATION
C.A. #35983
C.A.N. 32877

February 16th, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

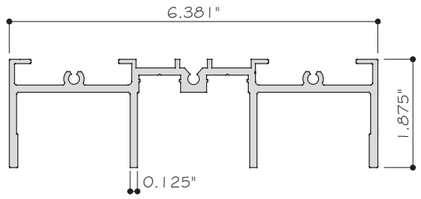
Rev. No.	Date	Drawn By	Description
R.1	02.04.2024	James	NEW APPLICATION

Drawn Date 02.04.2024 | Scale AS SHOWN

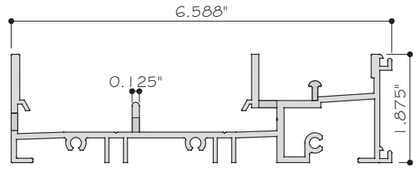
DRAWING NO.
AD23-81

D4

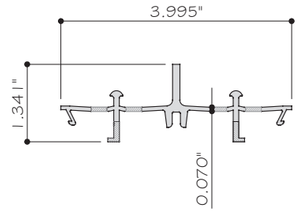
Sheet No.
14 OF 18



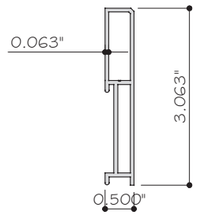
1 HEAD (3 TRACK)
ES-SGD2020-001 6063-T6



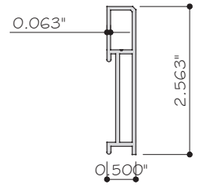
2 SILL (3 TRACK)
ES-SGD2020-002 6063-T6



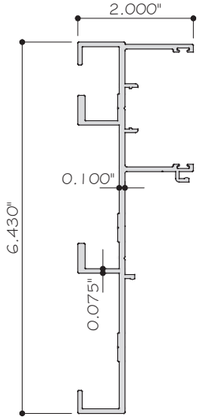
3 FRAME SILL COVER (3 TRACKS)
ES-SGD2020-003 6063-T6



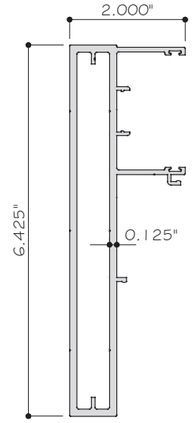
7 SILL RAISER 67PSF
ES-SGD2020-007 6063-T6



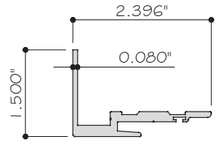
8 STANDARD SILL RAISER 53PSF
ES-SGD2020-008 6063-T6



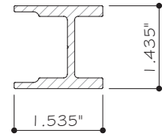
4 JAMB (3 TRACK)
ES-SGD2020-004 6063-T6



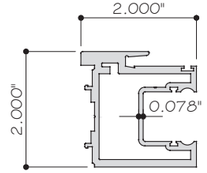
5 UNANCHORED JAMB (3 TRACK)
ES-SGD2020-005 6063-T6



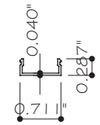
9 POCKET JAMB
ES-SGD2020-009 6063-T6



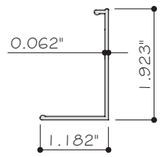
21 REINF. FOR INTERLOCK
ES-SGD2020-021 6005-T5



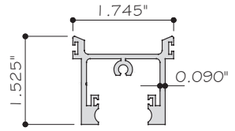
22 INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-022 6063-T6



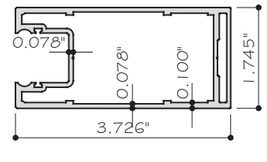
17 JAMB SCREW COVER
ES-6011 6063-T6



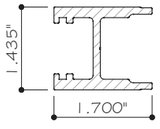
10 JAMB SCREW COVER
ES-SGD2020-010 6063-T6



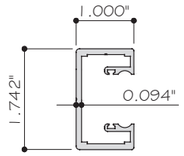
24 TOP RAIL FOR LAMINATED GLASS
ES-SGD2020-024 6063-T6



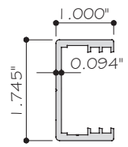
27A LOCKSTILE FOR LAMINATED
ES-SGD2020-088 6063-T6



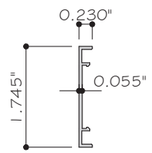
21A REINF. FOR INTERLOCK LAMINATED GLASS
ES-SGD2020-021A 6005-T5



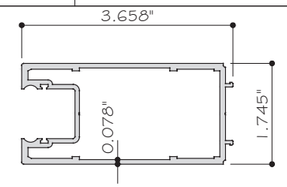
26 FIXED STILE FOR LAMINATED GLASS
ES-SGD2020-026 6063-T6



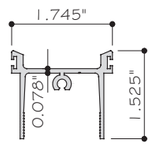
30 FIXED STILE FOR INSULATED LAMINATED
ES-SGD2020-030 6063-T6



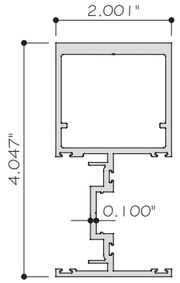
18 INTERLOCK AND LOCKSTILE SCREW COVER
ES-SGD2020-018 6063-T6



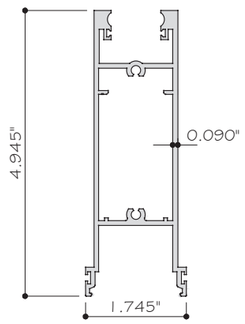
27 LOCK STILE FOR LAMINATED GLASS
ES-SGD2020-027 6063-T6



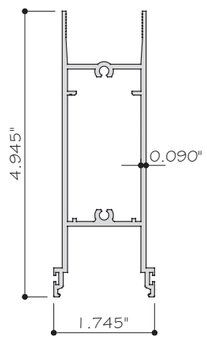
28 TOP RAIL FOR INSULATED LAMINATED
ES-SGD2020-028 6063-T6



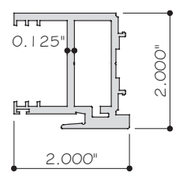
23 ASTRAGAL
ES-SGD2020-023 6063-T6



25 BOTTOM RAIL FOR LAMINATED GLASS
ES-SGD2020-025 6063-T6



29 BOTTOM RAIL FOR INSULATED LAMINATED
ES-SGD2020-029 6063-T6



31 INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-031 6063-T6

YIPING WANG
FLORIDA REGISTRATION
LICENSE #55983
C.A.N. 28877
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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MIRAMAR, FL. 33027 P: 305.271.0117
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ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

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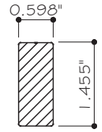
Drawn Date 02.04.2024
Scale AS SHOWN

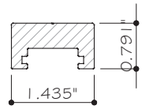
DRAWING NO.
AD23-81

PARTS

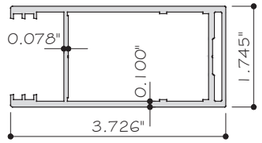
Sheet No.
15 OF 18



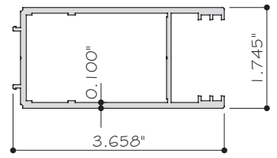
32 REINF. FOR INTERLOCK - INSULATED LAMINATED GLASS
ES-SGD2020-032 6005-T5



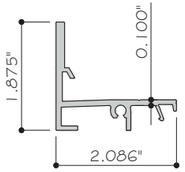
32A REINF. FOR INTERLOCK - INSULATED LAMINATED GLASS
ES-SGD2020-032A 6005-T5



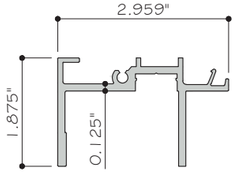
33A LOCKSTILE FOR INSULATE LAMINATED
ES-SGD2020-089 6063-T6



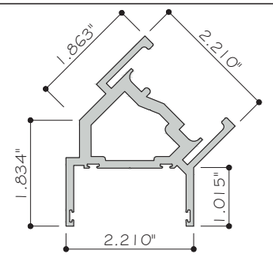
33 LOCK STILE FOR INSULATED LAMINATED GLASS
ES-SGD2020-033 6063-T6



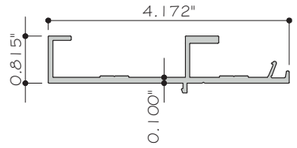
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



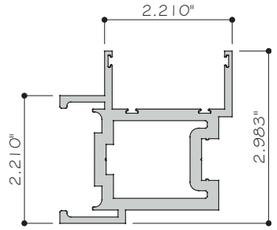
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



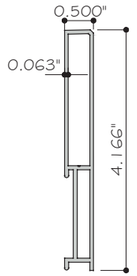
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



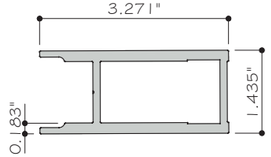
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6

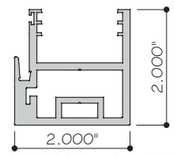


38 SILL RAISER - 90 PSF
ES-SGD2020-040 6063-T6

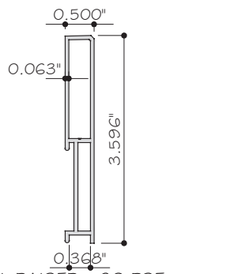


74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6

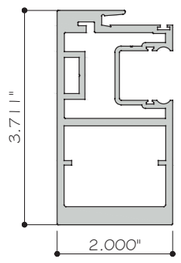
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



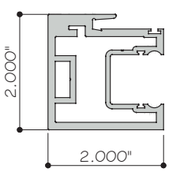
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



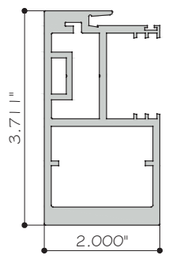
82 SILL RAISER - 80 PSF
ES-SGD2020-041 6063-T6



84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



85A INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-085A 6005-T5



86A INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS
ES-SGD2020-086A 6005-T5

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PARTS

Sheet No.
16 OF 18

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FLORIDA REGISTRATION
LICENSE
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C.A.N. 28877
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No 55983
February 16th, 2024

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	ES-SGD2020-001	HEAD (3 TRACK)	6063-T6	-
2	ES-SGD2020-002	SILL (3 TRACK)	6063-T6	-
3	ES-SGD2020-003	FRAME SILL COVER	6063-T6	-
4	ES-SGD2020-004	JAMB (3 TRACK)	6063-T6	-
5	ES-SGD2020-005	FREESTANDING JAMB (3 TRACK)	6063-T6	-
6	NOT USED			
7	ES-SGD2020-007	HI SILL RAISER 3-1/16" HEIGHT	6063-T6	-
8	ES-SGD2020-008	STANDARD SILL RAISER 2-9/16" HEIGHT	6063-T6	-
9	ES-SGD2020-009	POCKET JAMB	6063-T6	-
10	ES-SGD2020-010	JAMB SCREW COVER	6063-T6	-
11	ES-SGD2020-011	HEAD 2 TRACK	6063-T6	-
12	ES-SGD2020-012	SILL 2 TRACK	6063-T6	-
13	ES-SGD2020-013	FRAME SILL COVER	6063-T6	-
14	ES-SGD2020-014	JAMB (2 TRACK)	6063-T6	-
15	ES-SGD2020-015	FREESTANDING JAMB (2 TRACK)	6063-T6	-
16	NOT USED			
17	ES-6011	JAMB SCREW COVER	6063-T6	-
18	ES-SGD2020-018	INTERLOCK AND LOCK STILE SCREW COVER	6063-T6	-
19	NOT USED			
20	NOT USED			
21	ES-SGD2020-021	REINFORCEMENT FOR INTERLOCK	6005-T5	-
21A	ES-SGD2020-021A	REINFORCEMENT FOR INTERLOCK LAMINATED GLASS	6005-T5	-
22	ES-SGD2020-022	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
23	ES-SGD2020-023	ASTRAGAL	6005-T5	-
24	ES-SGD2020-024	TOP RAIL FOR LAMINATED GLASS	6063-T6	-
25	ES-SGD2020-025	BOTTOM RAIL FOR LAMINATED GLASS	6063-T6	-
26	ES-SGD2020-026	FIXED STILE FOR LAMINATED GLASS	6063-T6	-
27	ES-SGD2020-027	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
27A	ES-SGD2020-088	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
28	ES-SGD2020-028	TOP RAIL FOR INSULATED LAMINATED GLASS	6063-T6	-
29	ES-SGD2020-029	BOTTOM RAIL FOR INSULATED GLASS	6063-T6	-
30	ES-SGD2020-030	FIXED STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
31	ES-SGD2020-031	INTERLOCK FOR INSULATED LAMINATED GLASS	6063-T6	-
32	ES-SGD2020-032	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
32A	ES-SGD2020-032A	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
33	ES-SGD2020-033	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
33A	ES-SGD2020-089	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
34	NOT USED			
35	NOT USED			
36	NOT USED			
37	NOT USED			
38	ES-SGD2020-040	SILL RAISER 4-3/16" HEIGHT	6063-T6	-
39	ES2020-G01	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
40	ES2020-G02	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
41	ES2020-G03	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
42	ES2020-G04	INTERLOCK BUMPER	BLACK PVC, 60 SHORE D	-
43	ES2020-G05	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
44	W2322ING	SILL, HEAD PILE	POLYPROPYLENE	-
45	W2317INK	INTERLOCK PILE	POLYPROPYLENE	-
46	W2321ING	INTERLOCK ASTRAGAL	POLYPROPYLENE	-
47	WA2L	WEEPHOLE COVER	POLYPROPYLENE	-
48	QEZ 447-1	QLON	FOAM ALL STRUCTURE	-
49	PS01-0035-00B	RECESSED FACEPLATE SBML LOCK TWO POINT	-	

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
50	PS01-0035-00B	INVOLUTE HANDLE SET	-	-
	PS01-0014-000			-
	PS01-0014-00B			-
	PS01-0014-117			-
51	PS01-1005-00B	ADJUSTABLE STRIKE	POLYPROPYLENE	-
	PS01-0060-000 2P			-
52	SGD-1700	BUMPER	STEEL AND RUBBER	-
52A		BUMPER BASE AND SNAP FIT	STEEL AND RUBBER	-
53	1986-PRN-300055	ROLLER	STAINLESS STEEL	-
54	GTT-15006-HKA-01-TE	ROLLER	-	ZAMAK
55	-	#10 X 7/8" P.H. SCREW FOR PANEL ASSEMBLY	ST/ST	-
56	-	#12 X 1-1/2" P.H. SCREW FOR FRAME ASSEMBLY	ST/ST	-
57	-	#8 X 3/4" P.H. SCREW FOR HANDLE STRIKE	ST/ST	-
58	-	#10 X 1" F.H. SCREW FOR MORTISE LOCK	ST/ST	-
59	-	#12 X 1" P.H. SCREW FOR BUMPER	ST/ST	-
60	-	#10 X 1" P.H. SCREW	ST/ST	-
61	-	1/4-20 X 2-1/2" PAN HEAD SCREW	ST/ST	-
62	DC983	DOW CORNING 983 STRUCTURAL SILICONE	SILICONE	-
63	DC791	DOW CORNING 791	SILICONE	-
64	-	GLAZING SPACER	ALUMINUM	HELIMA
65	PS01-0208-XXX (KIT) PS01-0206-XXX (KIT)	INTERIOR HANDLE HANDLE KIT	DIE CAST ALUMINUM	-
66	NOT USED			
67	ES-SGD2020-062	FRAME FRONT HEAD	6063-T6	-
68	ES-SGD2020-021	INTERLOCK REINF. FOR LAMINATED GLASS	6063-T5	-
69	NOT USED			
70	ES-SGD2020-064	FRAME FRONT JAMB	6005-T5	-
71	ES-SGD2020-056	FRAME FRONT SILL	6063-T6	-
72	NOT USED			
73	NOT USED			
74	ES-SGD2020-071	REINF. FOR LOCK STILE LAM. GLASS	6063-T6	-
75	ES-SGD2020-068	FRAME FRONT SILL	6063-T6	-
76	ALU-P-018	SUPPORT FOR HANDLE LOCK	6063-T6	-
77	ALU-P-020	SUPPORT FOR HANDLE LOCK	6063-T6	-
78	NOT USED			
79	NOT USED			
80	SGD2020-B01	PANEL SUPPORT 2X PANEL 4" LENGTH	EPDM	-
81	ES-SGD2020-07X	REINFORCE FOR LOCK STILE (INSUL-LAM)	6063-T6	-
82	ES-SGD2020-041	SILL RAISER	6063-T6	-
83	-	# 10 X 3/8" P.H. TYP B	STAINLESS STEEL	-
84A	ES-SGD2020-084A	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
85A	ES-SGD2020-085A	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
86A	ES-SGD2020-086A	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
87A	ES-SGD2020-087A	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-
88	D4304AMK.430"X1.00"X.370"	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-
89	D5009AMK .500"X2.25"X.870"	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-

YIPING WANG
FLORIDA REGISTRATION
#55983
C.A.N. 28827
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 16th, 2024

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GLAZING CONSULTANTS
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ES-SGD2020TG SLIDING GLASS DOOR (3-TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev. No.	Date	Drawn By	Description
R.I	02.04.2024	James	NEW APPLICATION

Drawn Date 02.04.2024

Scale AS SHOWN

DRAWING NO.
AD23-81

BOM

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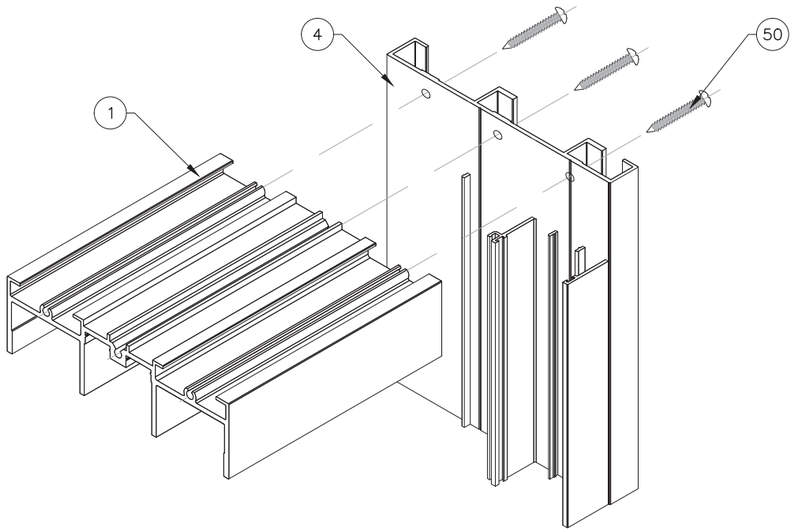
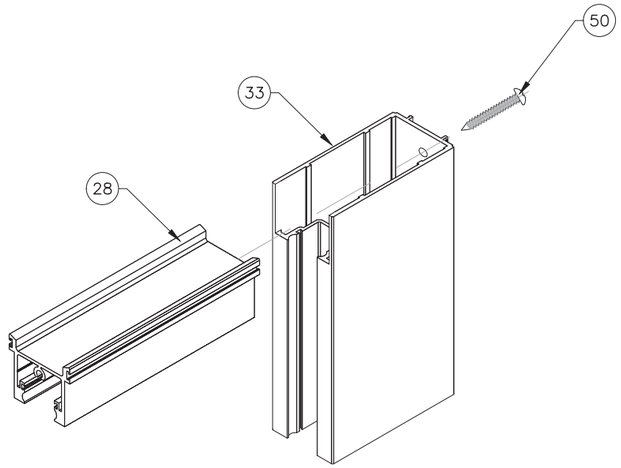
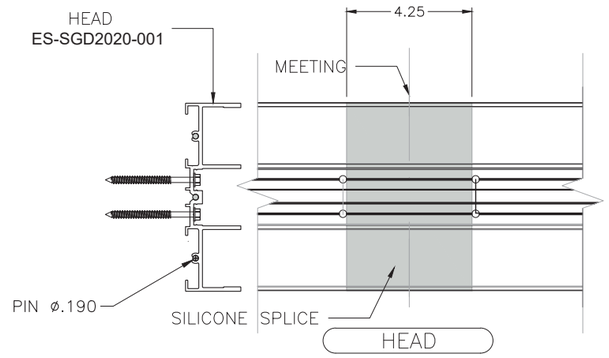
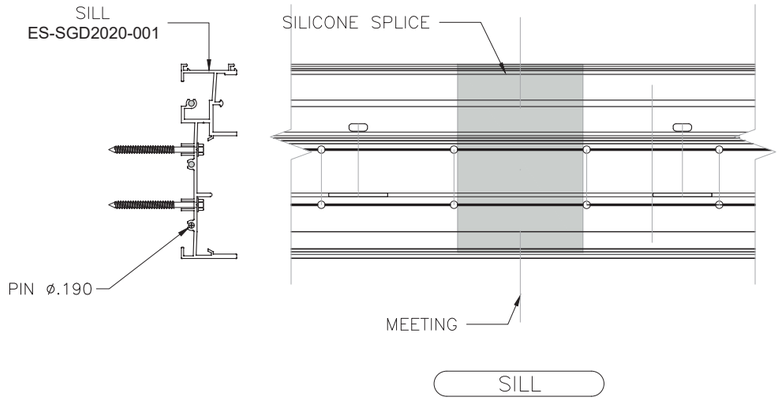


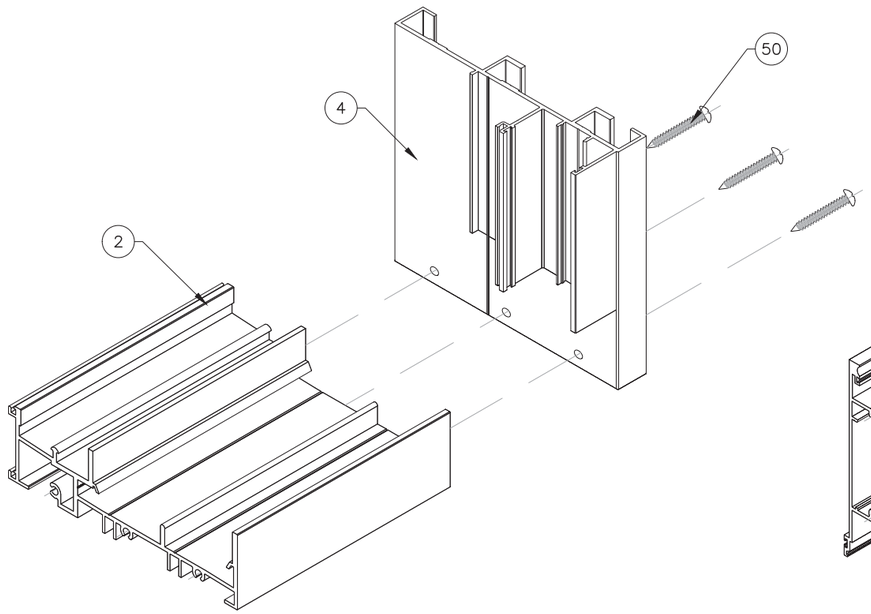
FRAME TOP CORNER
3 TRACK SHOWN



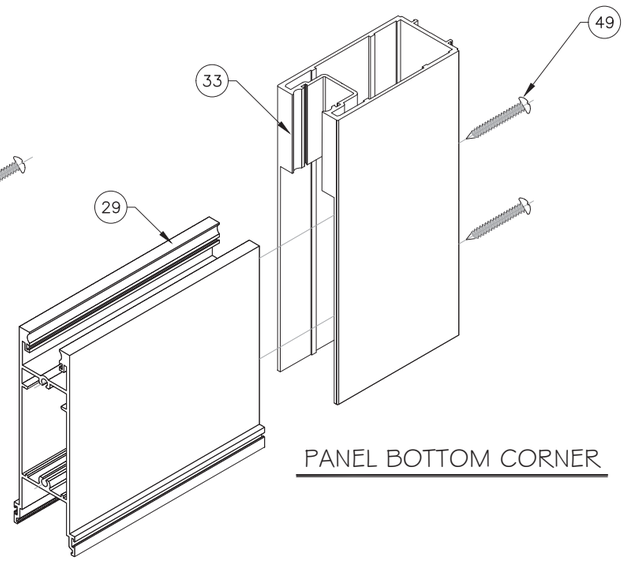
PANEL TOP CORNER







FRAME BOTTOM CORNER
3 TRACK SHOWN



PANEL BOTTOM CORNER

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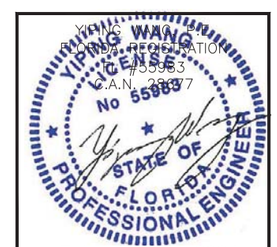
C.A.N. 32877



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