Product Approval
USER: Public User

FL #	FL46451
Application Type	New
Code Version	2023
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Custom Window Systems Inc.
Address/Phone/Email	1900 SW 44th Avenue Ocala, FL 34474 (352) 368-6922 certifications@cws.cc
Authorized Signature	Mary Rukashaza-Mukome certifications@cws.cc
Technical Representative	Mary Rukashaza-Mukome
Address/Phone/Email	1900 SW 44th Avenue Ocala, FL 34474 (641) 621-3317 rukashazamc@pella.com
Quality Assurance Representative	Steven Bailey
Address/Phone/Email	8501 NW 90th St. Medley, FL 33166 (305) 696-8660 sbailey@cws.cc
Category	Exterior Doors
Subcategory	Sliding Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Thomas J. Sotos
Florida License	PE-55225
Quality Assurance Entity	National Accreditation and Management Institute
Quality Assurance Contract Expiration Date	12/31/2026
Validated By	Lucas A. Turner, P.E., MBA ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL46451_R0_COI_CWS 7800 Evaluation Report.pdf

Referenced Standard and Year (of Standard)

Standard	Year
AAMA/WDMA/CSA 101/I.S.2/A440	2008
ASTM E1886	2019
ASTM E1996	2020
TAS 201/202/203	1994

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	01/26/2024
Date Validated	05/01/2024
Date Pending FBC Approval	05/05/2024
Date Approved	06/18/2024

Summary of Products

FL #	Model, Number or Name	Description
46451.1	7800 Aluminum Sliding Glass Door	7800 Impact Aluminum Sliding Glass Door

Limits of Use
Approved for use in HVHZ: Yes
Approved for use outside HVHZ: Yes
Impact Resistant: Yes
Design Pressure: +90/-90
Other: See installation instructions and evaluation report for limitation on various configurations. Setting blocks in compliance with 2411.3.3.1.

Installation Instructions
FL46451_R0_II_CWS L7800-02.pdf
Verified By: Thomas J. Sotos, P.E. 55225
Created by Independent Third Party: No

Evaluation Reports
FL46451_R0_AE_CWS 7800 Evaluation Report.pdf
Created by Independent Third Party: No

Back Next

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

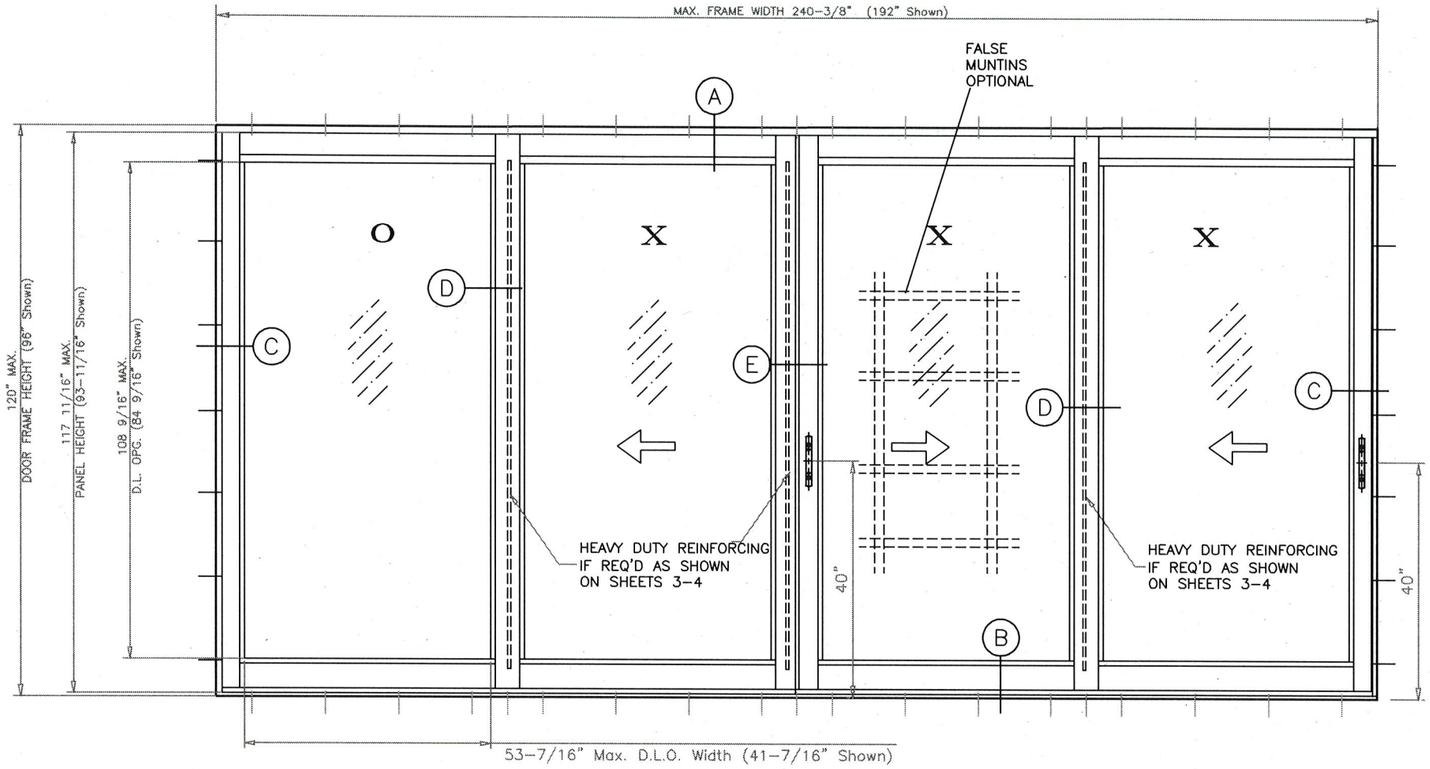
The State of Florida is an AA/EEO employer. Copyright 2007-2013 State of Florida. :: Privacy Statement :: Accessibility Statement :: Refund Statement

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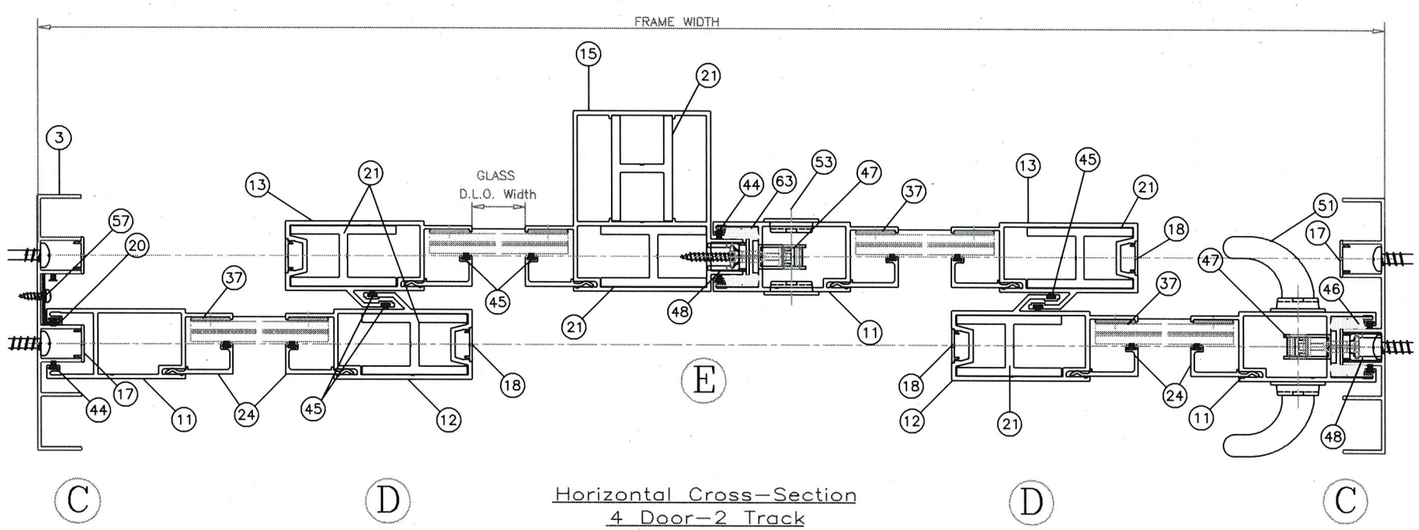
Product Approval Accepts:

Credit Card Safe securityMETRICS

SERIES: SGD-7800
IMPACT SLIDING GLASS DOOR



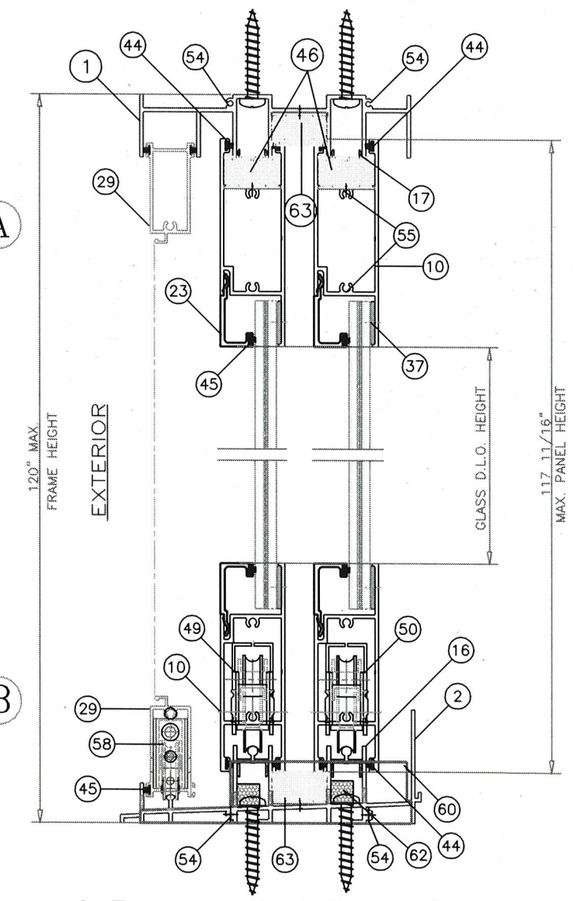
4 DOOR – TWO TRACK
"OXXX" TYPICAL ELEVATION
EXTERIOR



Horizontal Cross-Section
4 Door-2 Track
"OXXX" TYPICAL ELEVATION
EXTERIOR

General Notes:

1.) THIS DOOR SYSTEM IS DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE VELOCITY (HVHZ) AND ASTM 1300. THIS PRODUCT IS IMPACT RESISTANT. (SHUTTERS ARE NOT REQUIRED)
2.) WOOD BUCKS SHALL BE INSTALLED AND ANCHORED SO THAT THE BUILDING RESISTS THE SUPERIMPOSED LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF 2023 F.B.C. & TO BE REVIEWED BY BUILDING OFFICIAL.
3.) ANCHORS SHOWN ON THIS SHEET ARE AS PER TEST UNITS. ANCHORS ON ALL DOOR SIZES ARE NOT TO EXCEED MAXIMUM SPACINGS ON CENTER (O.C.) AS SHOWN ON SHEETS 5-9.
4.) ANCHOR CONDITIONS NOT DESCRIBED IN THESE DRAWINGS ARE TO BE ENGINEERED ON A SITE SPECIFIC BASIS, UNDER A SEPARATE APPROVAL AND TO BE REVIEWED BY BUILDING OFFICIAL.
5.) DOORS ARE QUALIFIED FOR USE WITH H.S. LAMINATED AND LAMINATED INSULATED GLASS TYPES TABULATED ON SHEETS 3-4.
6.) FOR OPTIONAL FRAME INSTALLATION DETAILS SEE SHEET 5.
7.) FALSE COLONIAL MUNTINS ARE OPTIONAL AND TO BE APPLIED W/ SILICONE.
8.) WOOD BUCKS IN CONTACT WITH CONCRETE MUST BE PRESSURE TREATED AND ANCHORED (BY OTHERS), PRIOR TO DOOR INSTALLATION. WOOD BUCKS TO BE ANCHORED IN COMPLIANCE WITH THE 2023 FBC
9.) APPROVAL APPLIES TO TWO, THREE, AND FOUR TRACK DOORS WITH FIXED AND/OR MOVING PANELS WITH OR WITHOUT (LH-RH) POCKETS. APPROVED CONFIGURATIONS ARE SHOWN ON SHEET 2.
10.) MULLING DOORS WITH OTHER TYPES OF MIAMI-DADE COUNTY APPROVED PRODUCTS USING A MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN ARE ACCEPTABLE BUT THE LOWEST DESIGN PRESSURE FROM THE DOORS, MULLION, OR ADJOINED PRODUCT, WILL APPLY TO THE ENTIRE MULLED SYSTEM.
11.) FOR METAL ATTACHMENT DETAILS & NOTES SEE SHEET 5.
12.) ALL METAL/STEEL IN CONTACT WITH ALUMINUM OR OTHER DISSIMILAR MATERIALS TO BE PAINTED OR PLATED AND SHALL MEET THE 2023 FLORIDA BLDG. CODE.



2 Track Vertical Cross-Section

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

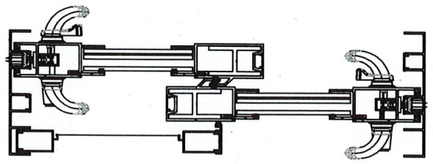
DATE APR 11 2024

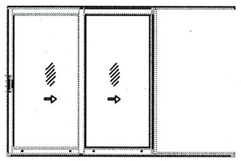
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GENERAL NOTES AND 2 TRACK DOOR CONFIGURATION

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:
DWG #: CWS-1230	REV #:
SCALE: AS NOTED	SHEET 1 OF 12

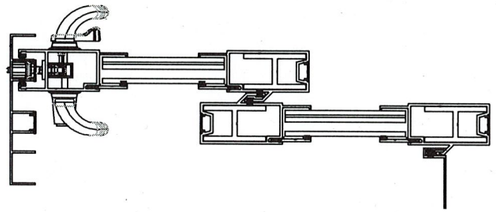


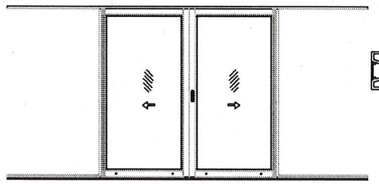
XX (SHOWN)
OX
XO



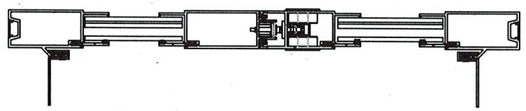


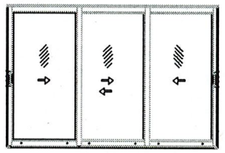
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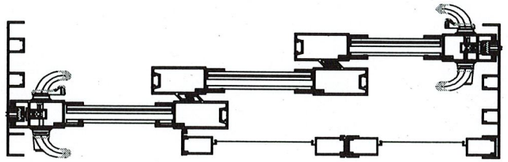


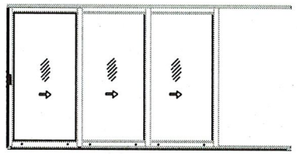
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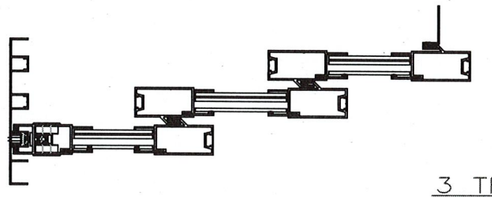


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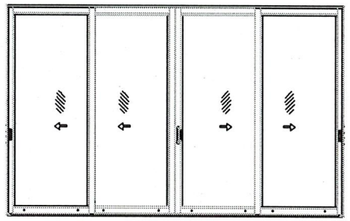


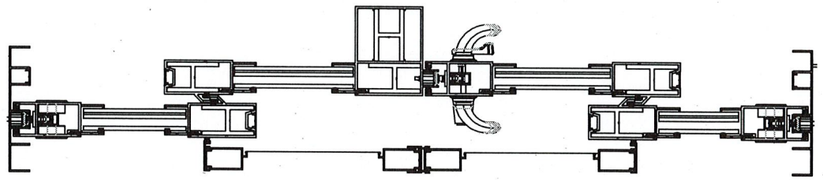


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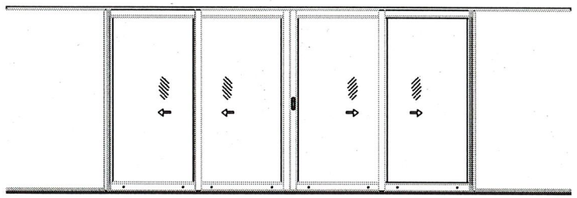


3 TRACK FRAME
APPROVED CONFIGURATIONS
WITH & WITHOUT POCKETS

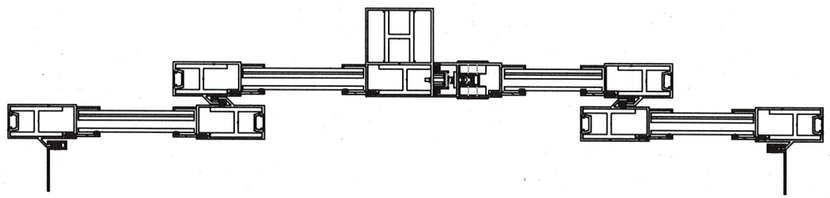




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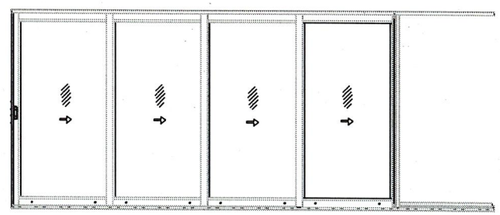


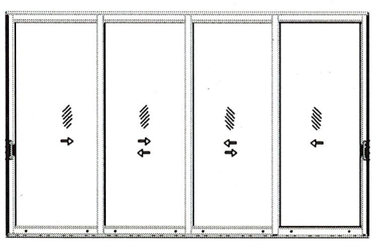
pXXXXp (SHOWN)
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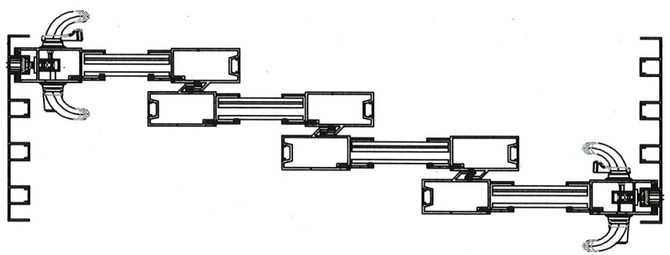
2 TRACK FRAME
APPROVED CONFIGURATIONS
WITH & WITHOUT POCKETS

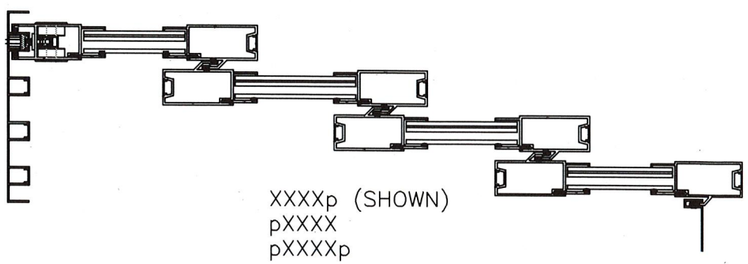
4 TRACK FRAME
APPROVED CONFIGURATIONS
WITH & WITHOUT POCKETS





XXXX (SHOWN)
OXXX
XXX0





XXXXp (SHOWN)
pXXXX
pXXXXp

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

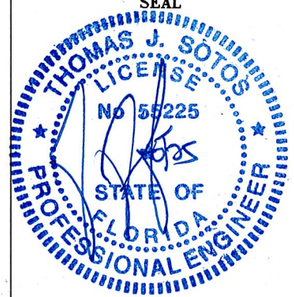
SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE APR 11 2024

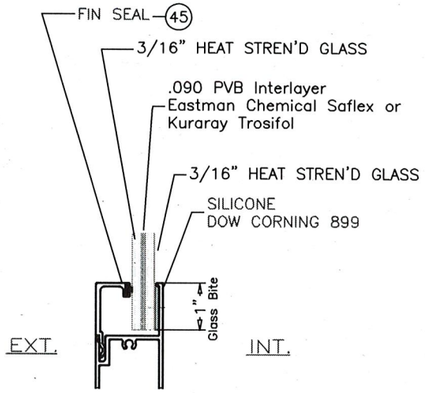
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DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

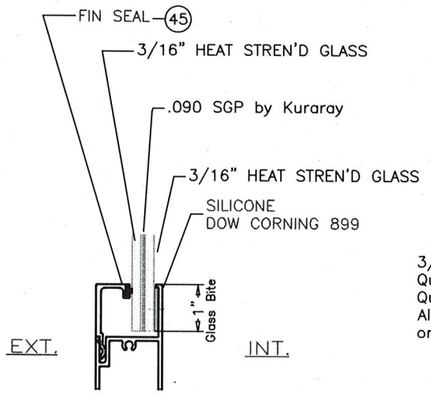
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SCALE: AS NOTED

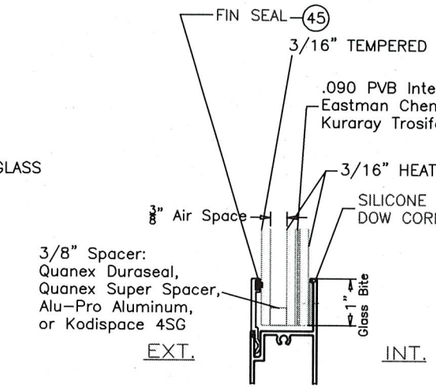
SHEET 2 OF 12



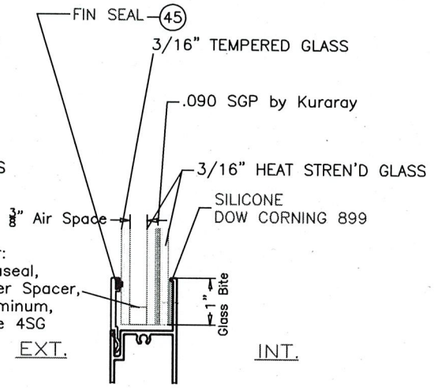
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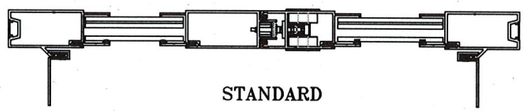
GLASS TYPE 'B'

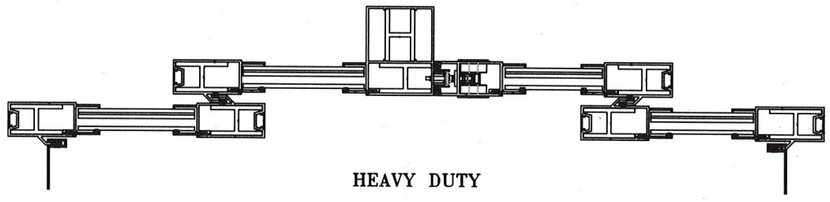


GLASS TYPE 'C'



GLASS TYPE 'D'





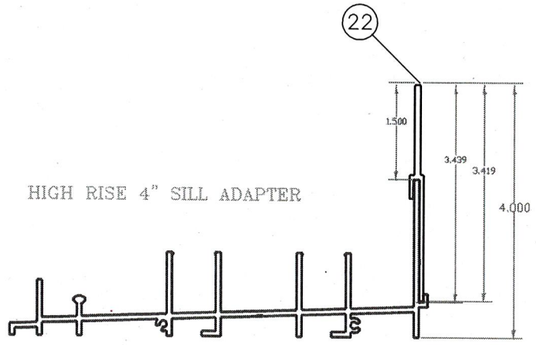
ASTRAGAL CONFIGURATION DESIGN PRESSURES (PSF)*

EXTERIOR (+) LOADS SHOWN BELOW ARE FOR DOORS WITH SILL HEIGHTS AS NOTED

		STANDARD DOOR – 3-1/4" SILL				**HEAVY DUTY DOOR (3-1/4" SILL-GLASS A & C) (4" SILL-GLASS B & D)**							
		CLUSTER OF 4 ANCHORS AT STILE ENDS.				CLUSTER OF 6 ANCHORS AT STILE ENDS.							
AVERAGE PANEL WIDTH* (IN.)	HEIGHT (IN.)	**GLASS TYPE 'A'**		**GLASS TYPE 'C'**		**GLASS TYPE 'A'**		**GLASS TYPE 'B'**		**GLASS TYPE 'C'**		**GLASS TYPE 'D'**	
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30	96	60.0	61.0	60.0	61.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
36	96	60.0	61.0	60.0	61.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
42	96	60.0	61.0	60.0	61.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
48	96	60.0	61.0	60.0	61.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
54	96	60.0	61.0	60.0	61.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
60	96	51.0	51.0	51.0	51.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
30	120					60.0	66.0			60.0	66.0		
36	120					60.0	66.0			60.0	66.0		
42	120					60.0	66.0			60.0	66.0		
48	120					60.0	66.0			60.0	66.0		

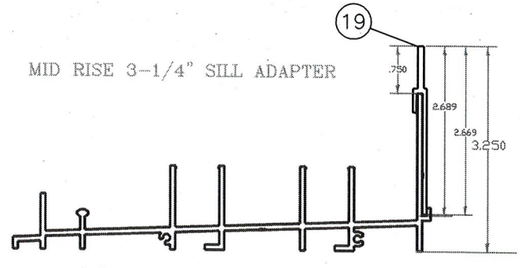
*AVERAGE PANEL WIDTH = DOOR WIDTH / NUMBER OF PANELS.

HIGH RISE 4" SILL ADAPTER



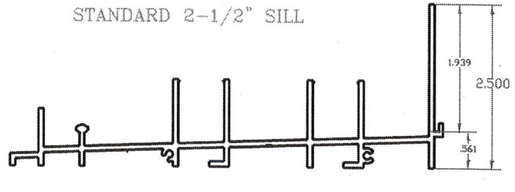
FOR 4" SILL HEIGHT (+) LOADS ARE 90.0 PSF.

MID RISE 3-1/4" SILL ADAPTER



**FOR 3-1/4" SILL HEIGHT LIMIT (+) LOADS TO 60.0 PSF.

STANDARD 2-1/2" SILL



**FOR 2-1/2" SILL HEIGHT LIMIT (+) LOADS TO 33.3 PSF.

CWS

1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

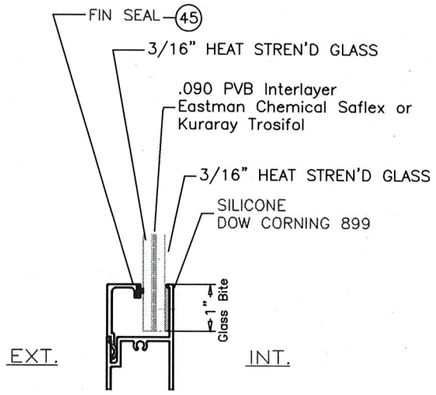
DATE: APR 11 2024

SHEET DESCRIPTION:
GLAZING DETAILS, REINFORCING OPTIONS, SILL OPTIONS & DESIGN PRESSURES

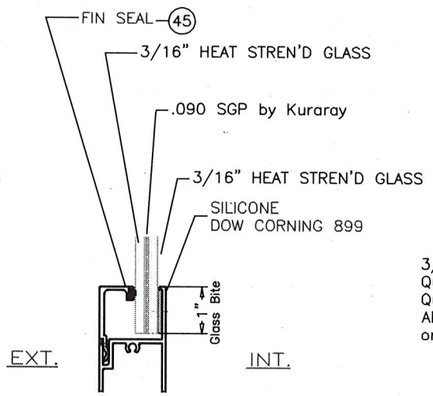
DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

DWG #: CWS-1230 | REV #:

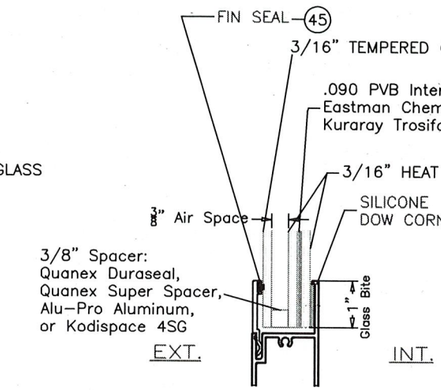
SCALE: AS NOTED | SHEET 3 OF 12



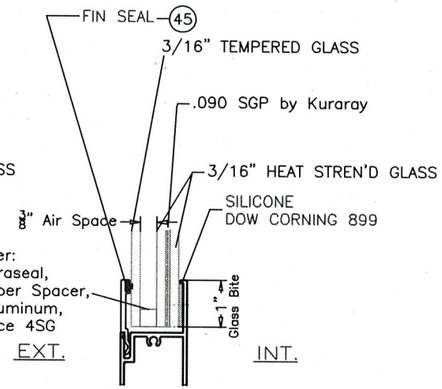
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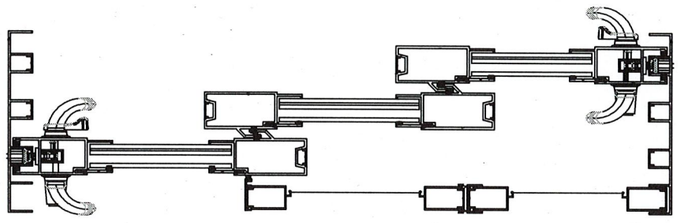
GLASS TYPE 'B'



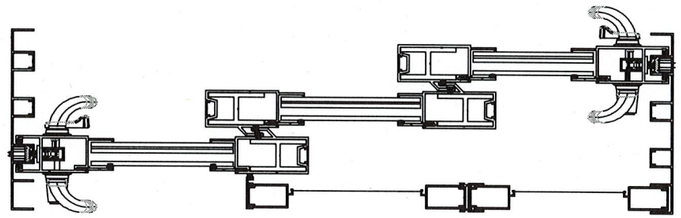
GLASS TYPE 'C'



GLASS TYPE 'D'



STANDARD



HEAVY DUTY

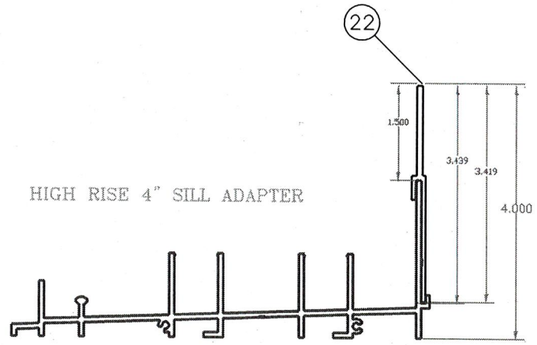
INTERLOCK CONFIGURATION DESIGN PRESSURES (PSF)*

EXTERIOR (+) LOADS SHOWN BELOW ARE FOR DOORS WITH SILL HEIGHTS AS NOTED

		STANDARD DOOR – 3-1/4" SILL				HEAVY DUTY DOOR (3-1/4" SILL-GLASS A & C) (4" SILL-GLASS B & D)							
		CLUSTER OF 4 ANCHORS AT STILE ENDS.				CLUSTER OF 6 ANCHORS AT STILE ENDS.							
AVERAGE PANEL WIDTH* (IN.)	HEIGHT (IN.)	GLASS TYPE 'A'		GLASS TYPE 'C'		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
		EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30	96	60.0	70.0	60.0	70.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
36		60.0	70.0	60.0	70.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
42		60.0	70.0	60.0	70.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
48		60.0	70.0	60.0	70.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
54		60.0	60.0	60.0	60.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
60		60.0	60.0	60.0	60.0	60.0	75.0	90.0	90.0	60.0	75.0	90.0	90.0
30	120					60.0	60.0			60.0	60.0		
36						60.0	60.0			60.0	60.0		
42						60.0	60.0			60.0	60.0		
48						60.0	60.0			60.0	60.0		

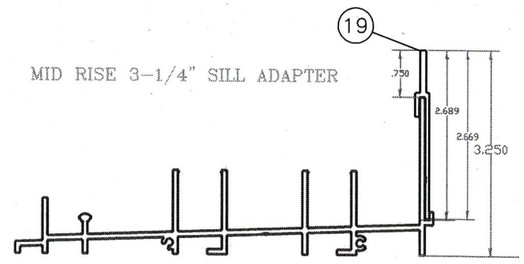
*AVERAGE PANEL WIDTH = DOOR WIDTH / NUMBER OF PANELS.

HIGH RISE 4" SILL ADAPTER



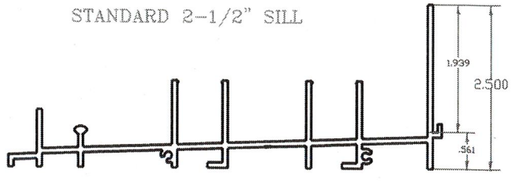
FOR 4" SILL HEIGHT (+) LOADS ARE 90.0 PSF.

MID RISE 3-1/4" SILL ADAPTER



**FOR 3-1/4" SILL HEIGHT LIMIT (+) LOADS TO 60.0 PSF.

STANDARD 2-1/2" SILL



**FOR 2-1/2" SILL HEIGHT LIMIT (+) LOADS TO 33.3 PSF.

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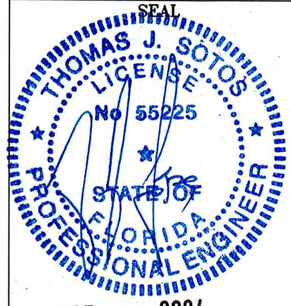
SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

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PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



DATE: APR 11 2024

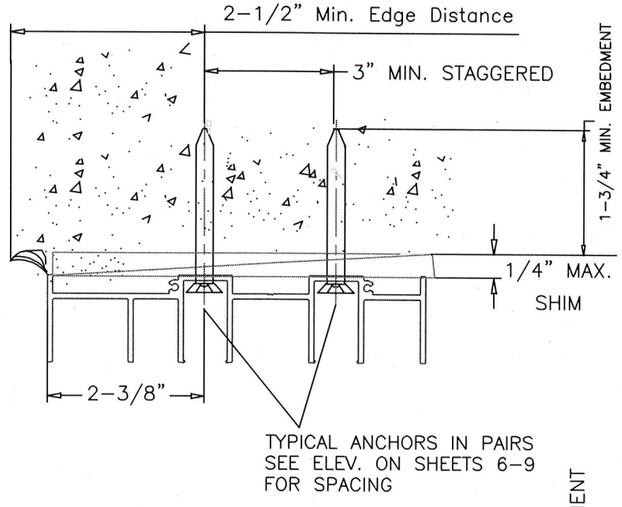
SHEET DESCRIPTION:
GLAZING DETAILS, REINFORCING OPTIONS, SILL OPTIONS & DESIGN PRESSURES

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Tom Sotos	4/1/2024
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DWG #:	REV #
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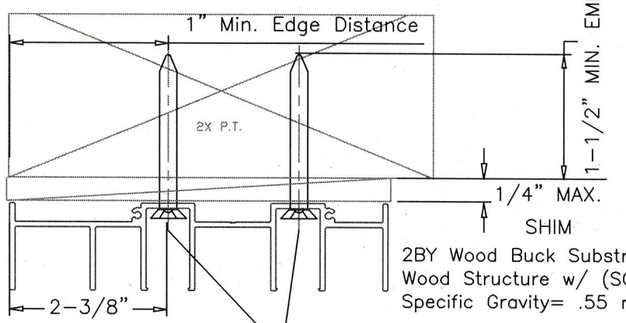
SCALE:	SHEET
AS NOTED	4 OF 12

CONCRETE OR BLOCK SUBSTRATE



TYPICAL ANCHORS IN PAIRS
SEE ELEV. ON SHEETS 6–9
FOR SPACING

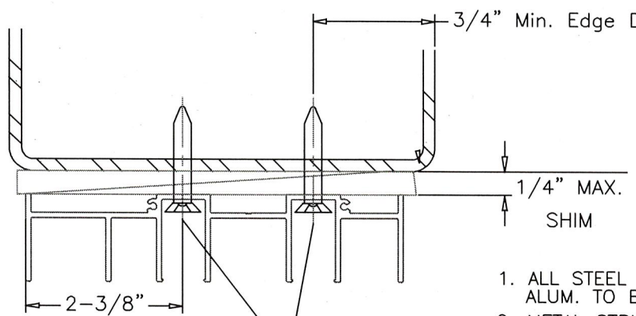
WOOD SUBSTRATE



2BY Wood Buck Substrate or
Wood Structure w/ (SG)
Specific Gravity= .55 min. (Typ.)

TYPICAL ANCHORS IN PAIRS
SEE ELEV. ON SHEETS 6–9
FOR SPACING

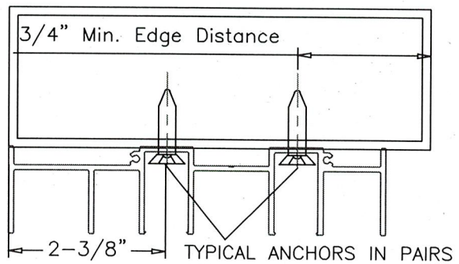
METAL STRUCTURE SUBSTRATE



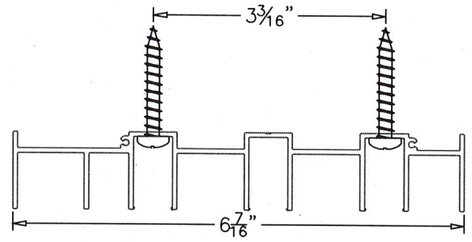
TYPICAL ANCHORS IN PAIRS
SEE ELEV. ON SHEETS 6–9
FOR SPACING

1. ALL STEEL IN CONTACT WITH ALUM. TO BE PAINTED OR PLATED.
2. METAL STRUCTURES:
   A) STEEL : Fy = 36 KSI MIN. (STEEL 12 GA. MIN. THICK = 0.105")
   B) ALUMINUM : 6063–T6 MIN. (ALUM. 0.081" MIN. THICK)

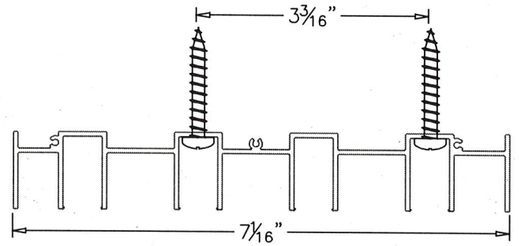
MIAMI–DADE COUNTY APPR'D MULLION SEE SEPARATE NOA



TYPICAL ANCHORS IN PAIRS
SEE ELEV. ON SHEETS 6–9
FOR SPACING



3 TRACK ANCHOR POSITIONS



4 TRACK ANCHOR POSITIONS

WOOD BUCKS AND METAL STRUCTURES NOT BY CWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. ON SHEETS 6–9 FOR SPACING

ANCHOR TYPE CHART IN CONC. or MASONRY (min.)				
ANCHOR OPTIONS	Embedment	Edge Dist.	Min C TO C	Concrete
1/4" DEWALT ULTRACON+	1 3/4"	2–1/2"	4"	3.05 Ksi
1/4" ITW BUILDEX TAPCON	1 3/4"	1–1/2"	4"	2.0 Ksi
2T ANCHOR PAIRS TO BE STAGGERED 3" MIN				

ANCHOR TYPE CHART IN 2X WOOD BUCK (min.)				
ANCHOR OPTIONS	Embedment	Edge Dist.	Min C TO C	2x Wood
1/4" DEWALT ULTRACON+	1 1/2"	1"	1"	.55 SG
1/4" ITW BUILDEX TAPCON	1 1/2"	1"	1"	.55 SG
#14 S.M.S. (Into 2X)	1 1/2"	1"	1"	.55 SG

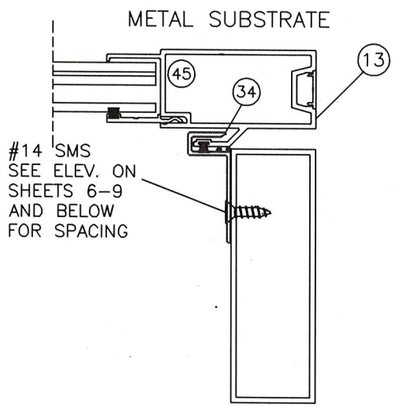
1/4" SELF DRILLING SCREWS
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063–T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
#14 SMS
INTO APPROVED MULLIONS (NO SHIM SPACE)
TYPICAL EDGE DISTANCE
(1/4") INTO CONCRETE AND MASONRY = 2–1/2" MIN. (ULTRACON+)
(1/4") INTO CONCRETE AND MASONRY = 1–1/2" MIN. (ITW TAPCON)
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

SEALANTS:
FRAME AND INSTALLATION SCREWS AT SILL TO BE SEALED WITH SILICONE OR POLYURETHANE SEALANT.

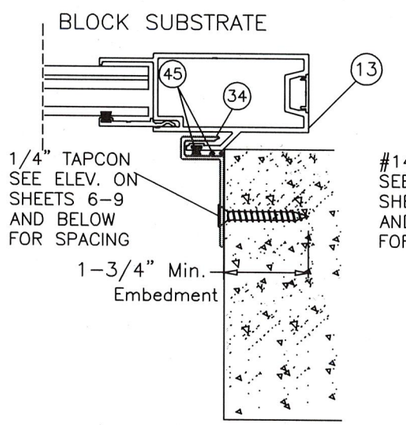
WEEPHOLES:
(1) 1" WEEP PER TRACK AT EACH SILL END
(1) 1" WEEP PER TRACK AT EACH CENTER OF STILE

POCKET DOORS

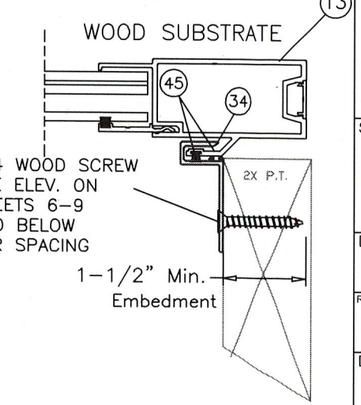
METAL SUBSTRATE



BLOCK SUBSTRATE



WOOD SUBSTRATE



ALL POCKET HOOK INSTALLATION SCREWS TO BE PLACED <= 6" FROM EACH END AND WITH <= 13–1/2" MAX. SPACING.

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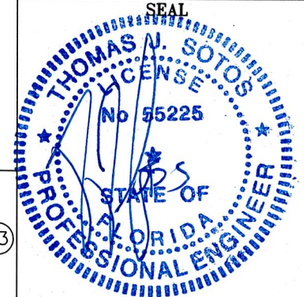
SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

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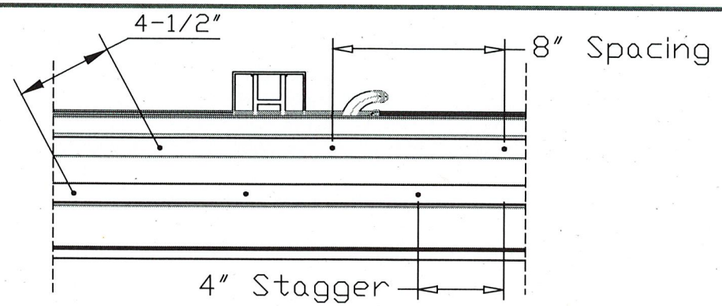
SEAL



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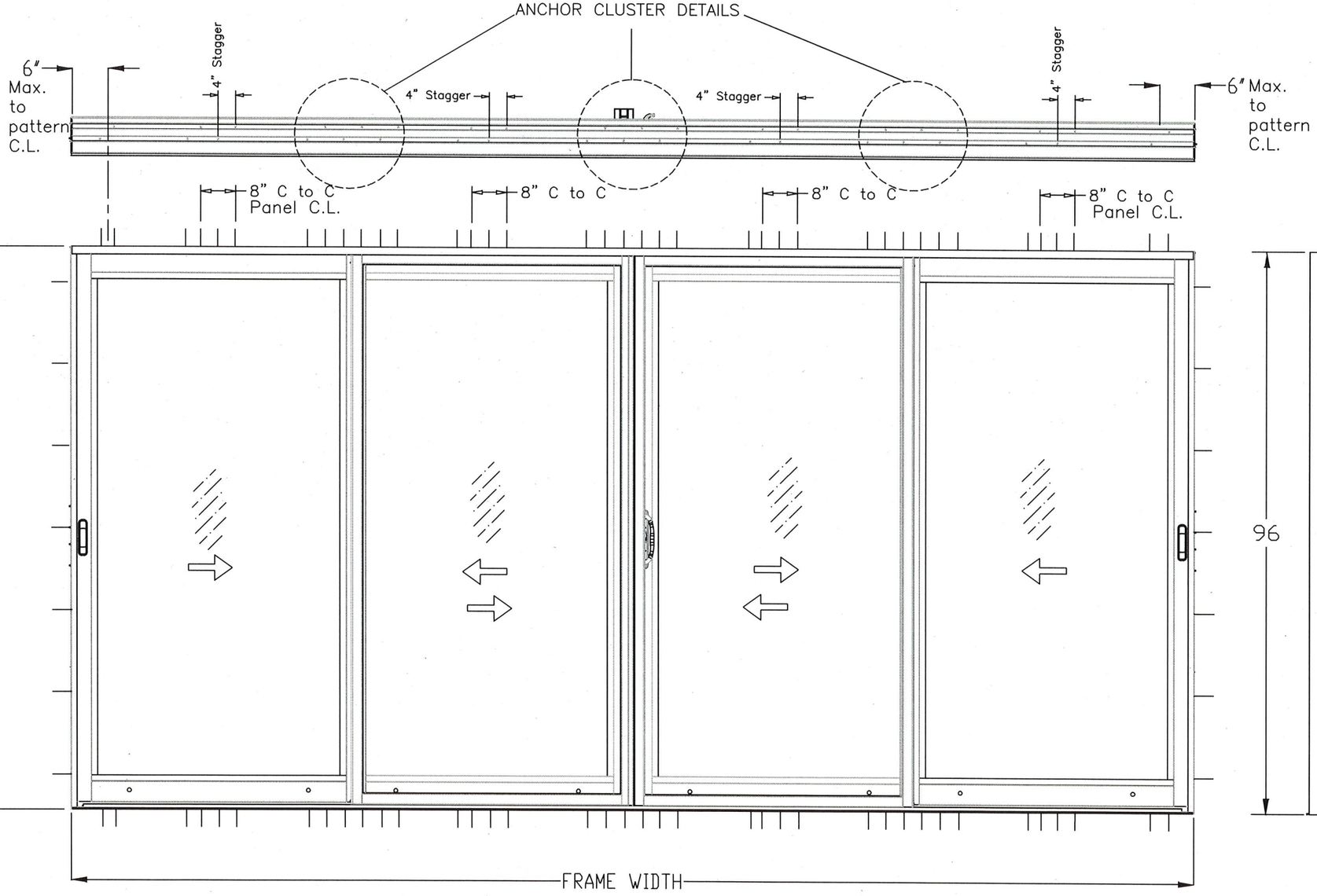
SHEET DESCRIPTION:
ANCHORAGE CONDITIONS & DETAILS

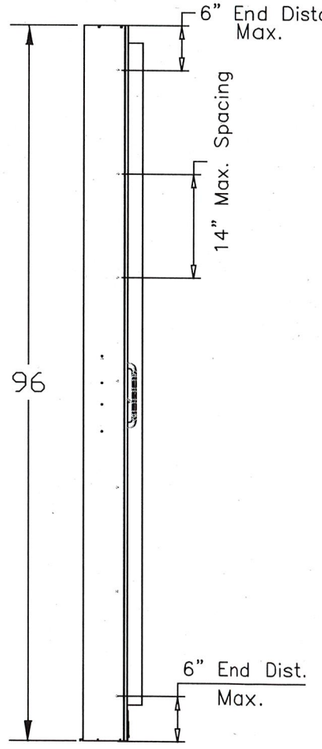
DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:
DWG #: CWS-1230	REV #:
SCALE: AS NOTED	SHEET 5 OF 12



6 ANCHOR STILE CLUSTER
2 TRACK HEAVY DUTY DOOR
HEAD AND SILL

ANCHOR CLUSTER DETAILS





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ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

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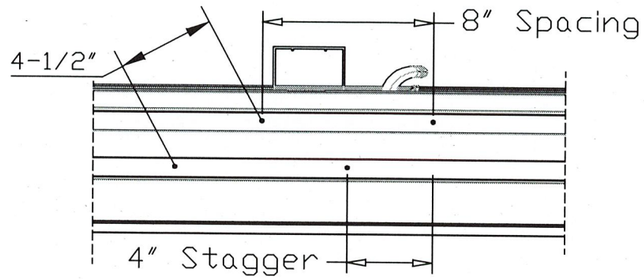
APR 11 2024
DATE

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2 TRACK HEAVY DUTY DOOR ANCHORAGE DETAILS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
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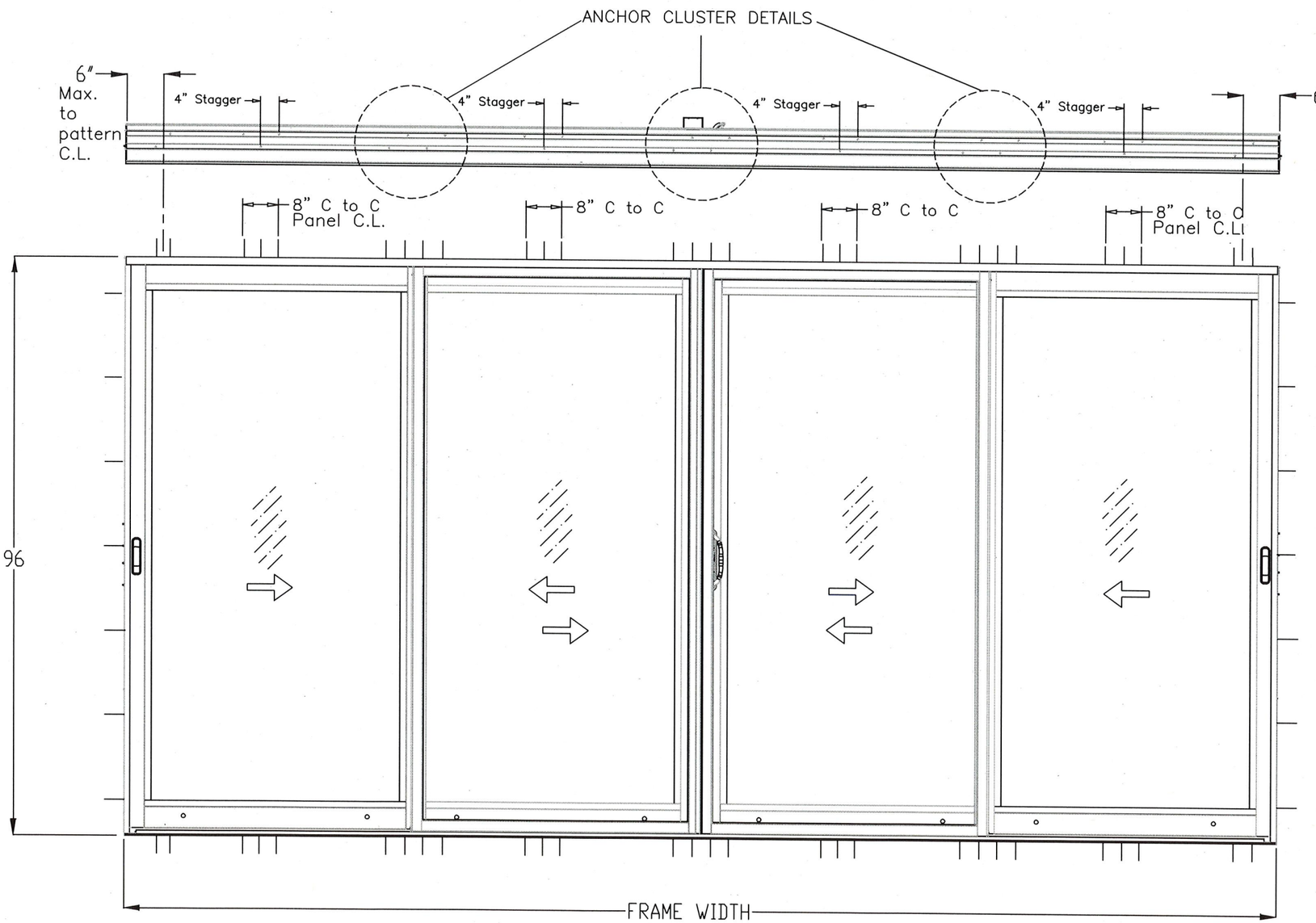
DWG #:	REV #:
CWS-1230	

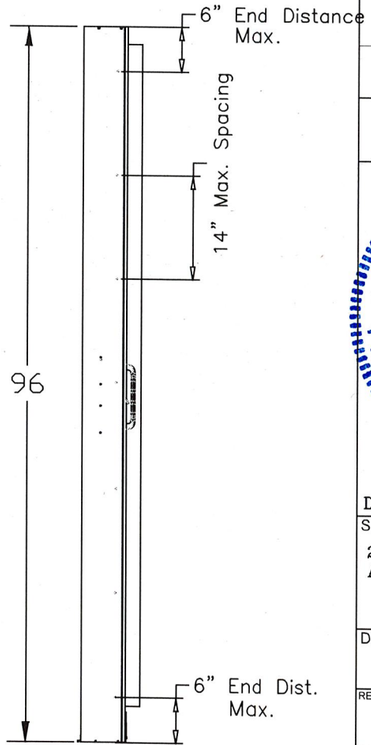
SCALE:	SHEET
AS NOTED	6 OF 12



4 ANCHOR STILE CLUSTER
2 TRACK STANDARD DOOR
HEAD AND SILL

ANCHOR CLUSTER DETAILS





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ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

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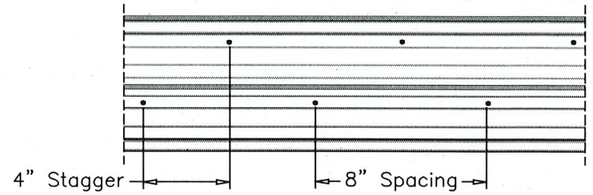
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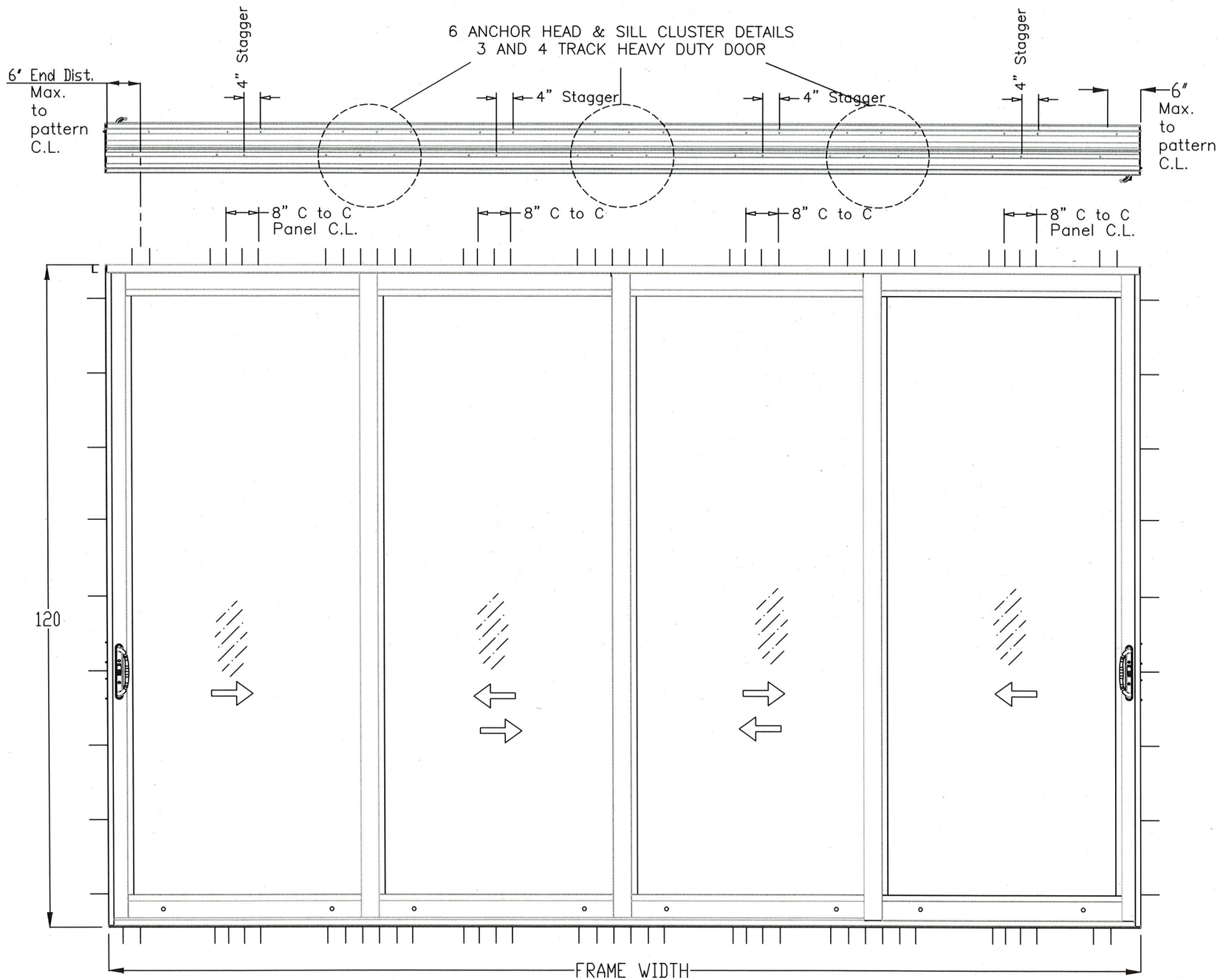
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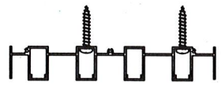
DATE APR 11 2024

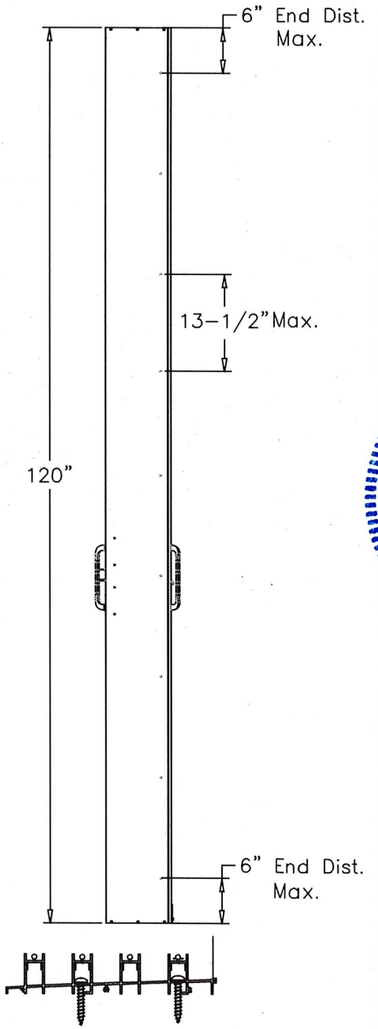
SHEET DESCRIPTION:
2 TRACK STANDARD DOOR ANCHORAGE DETAILS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
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DWG #: CWS-1230	REV #:
SCALE: AS NOTED	SHEET 7 OF 12









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ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

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DATE: APR 11 2024

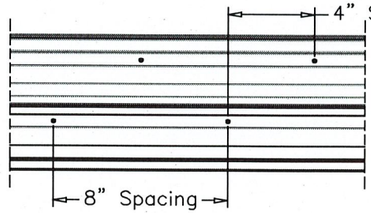
SHEET DESCRIPTION:
3 AND 4 TRACK HEAVY DUTY DOOR ANCHORAGE DETAILS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

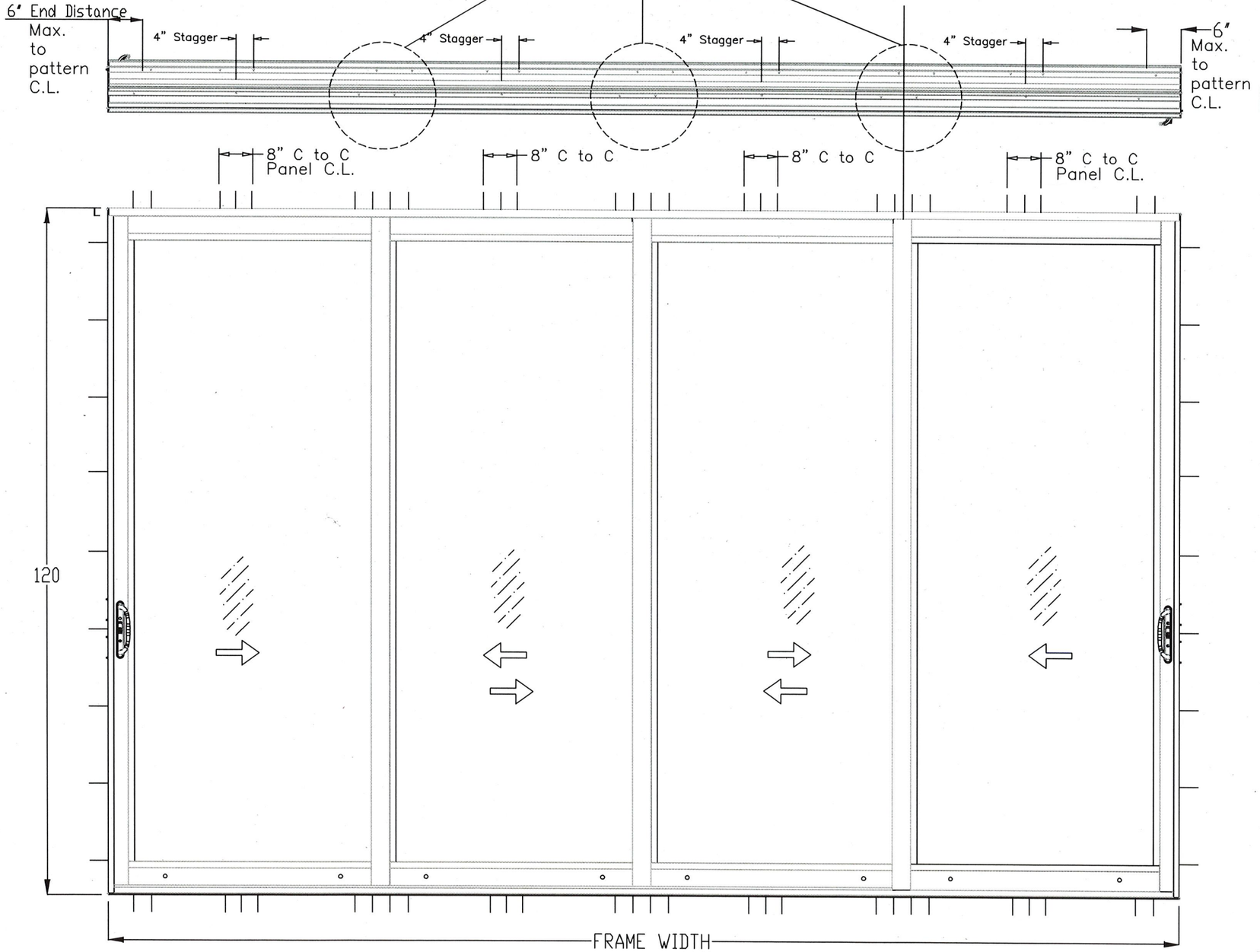
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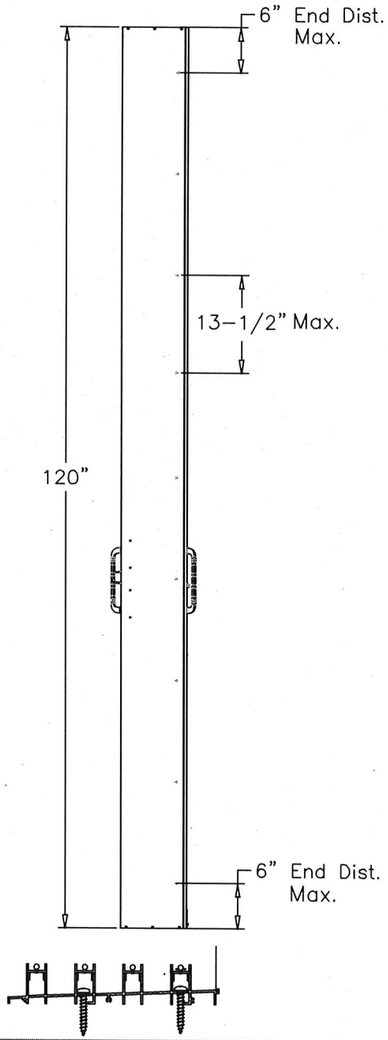
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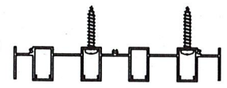
SHEET 8 OF 12



4 ANCHOR HEAD & SILL CLUSTER DETAILS
3 AND 4 TRACK STANDARD DOOR







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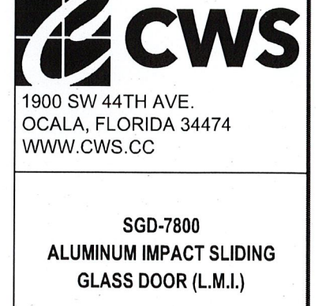
SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

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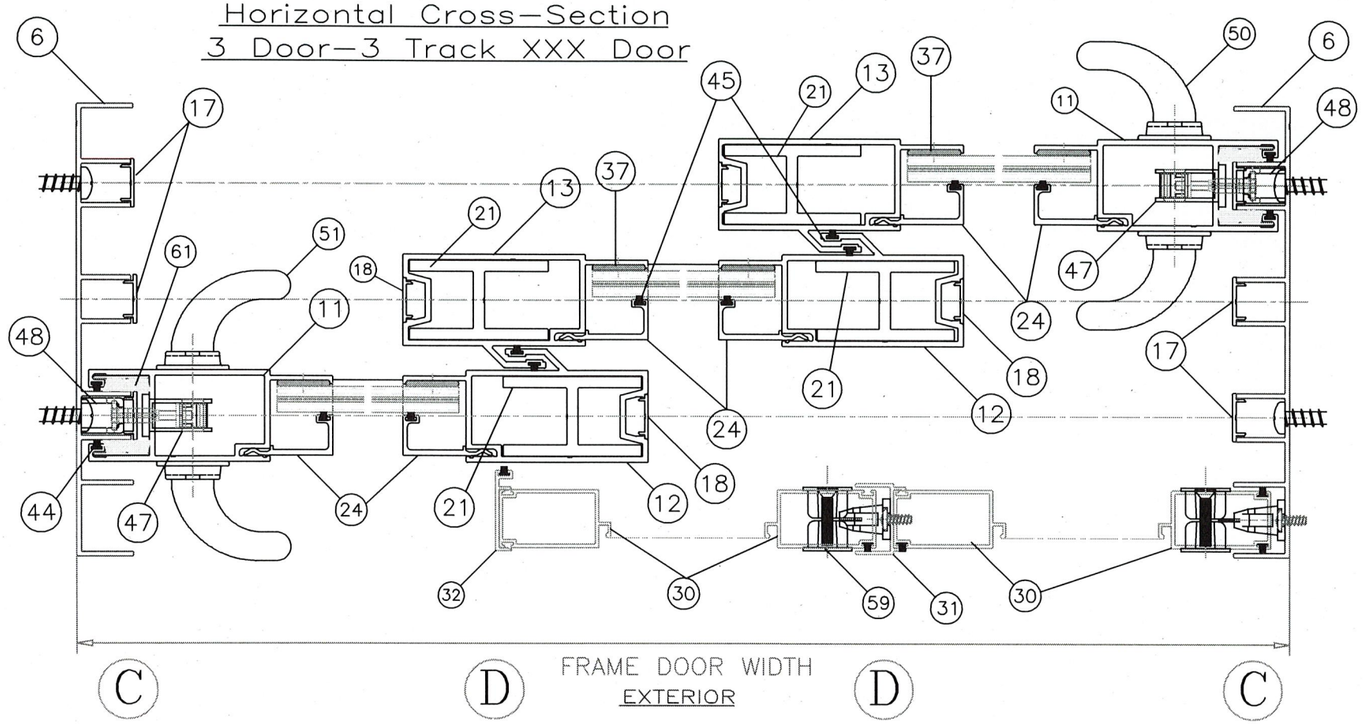


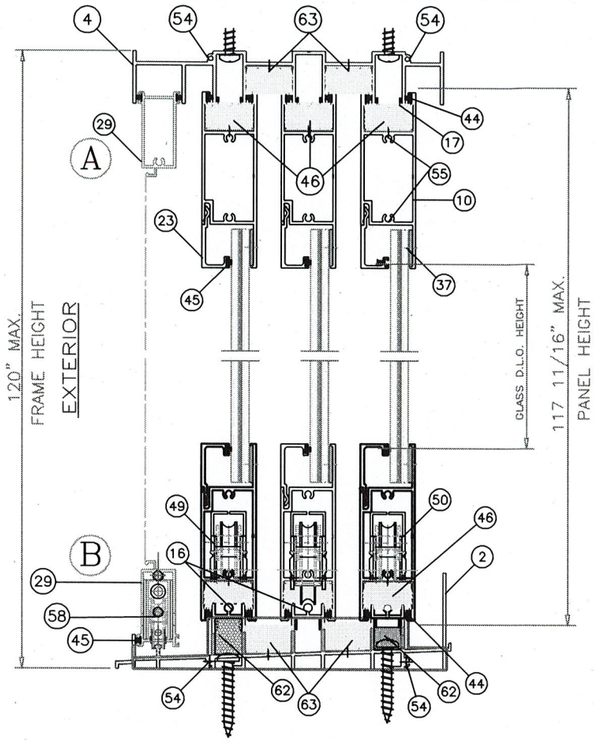
DATE APR 1 1 2024

SHEET DESCRIPTION:
3 AND 4 TRACK STANDARD DOOR ANCHORAGE DETAILS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
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SCALE: AS NOTED	SHEET 9 OF 12

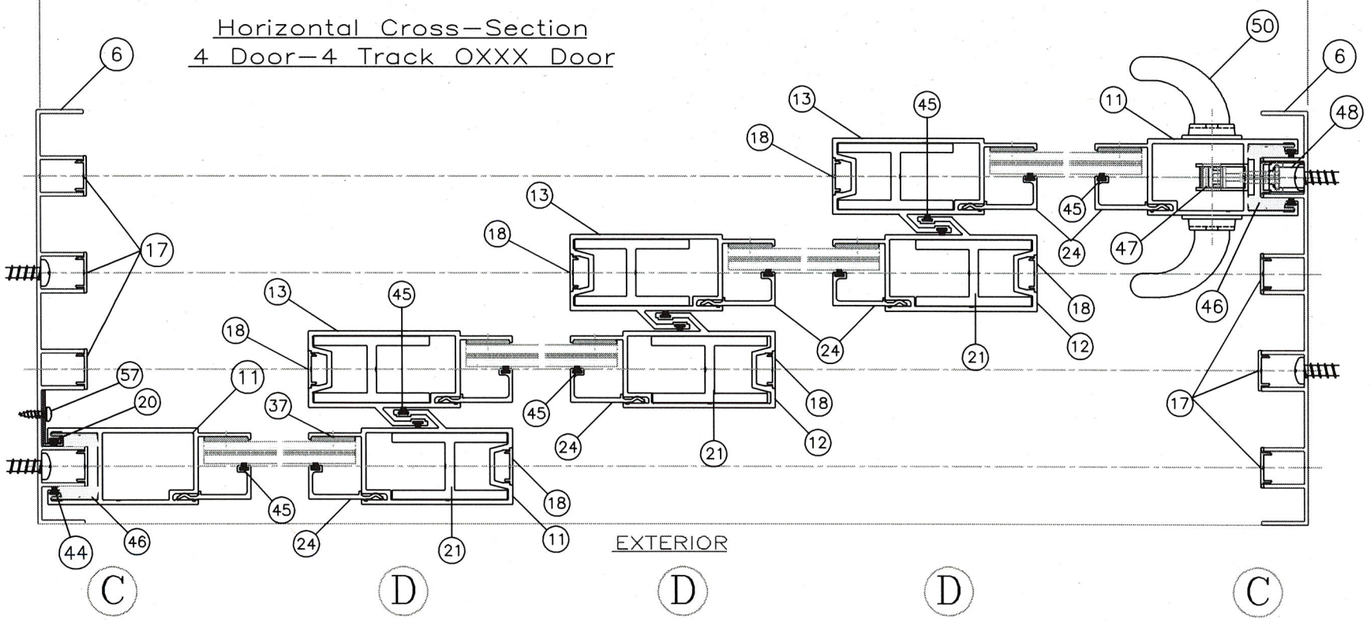
Horizontal Cross–Section
3 Door–3 Track XXX Door

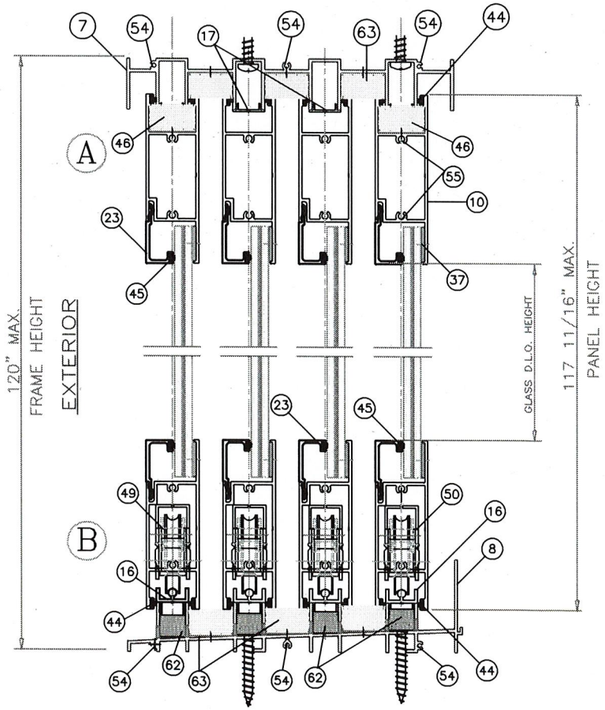




3 Track Vertical Cross–Section

Horizontal Cross–Section
4 Door–4 Track OXXX Door





"4D/4T" Vertical Cross–Section

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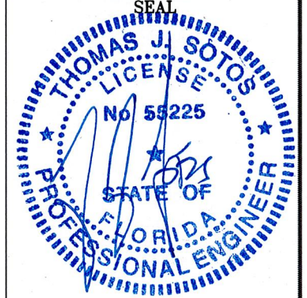
SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

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A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL



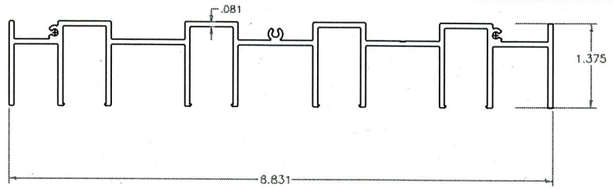
DATE: APR 11 2024

SHEET DESCRIPTION:
3 AND 4 TRACK DOOR DETAILS

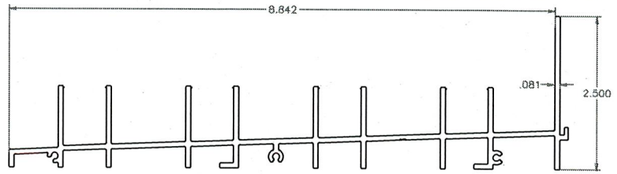
DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

DWG #:	REV #:
CWS-1230	

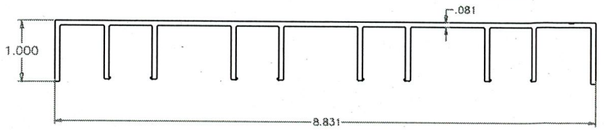
SCALE:	SHEET
AS NOTED	10 OF 12



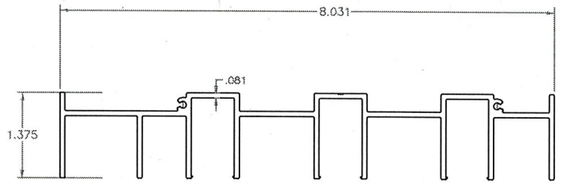
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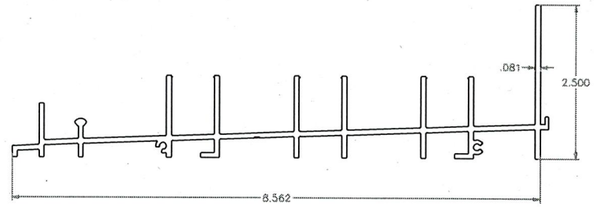
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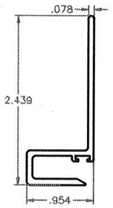
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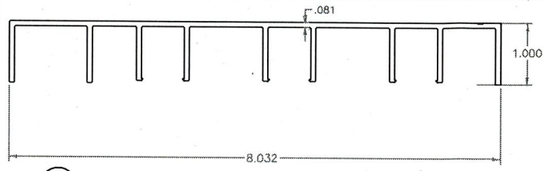
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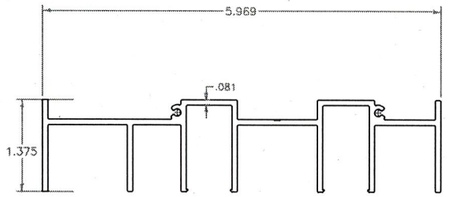
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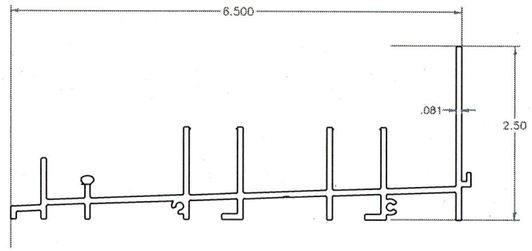
34 P-HOOK



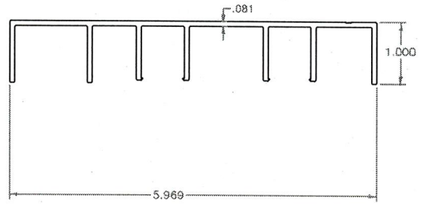
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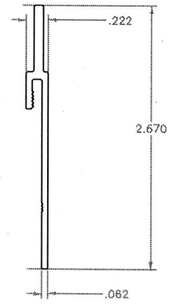
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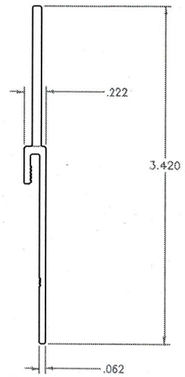
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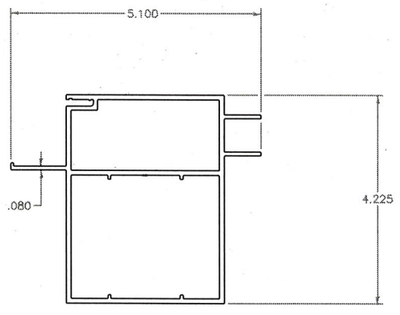
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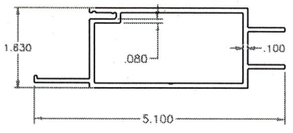
19 3 INCH SILL RISER



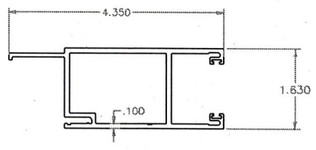
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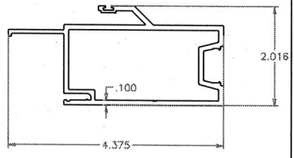
15 BOX ASTRAGAL



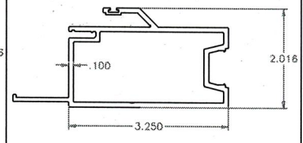
14 STANDARD ASTRAGAL



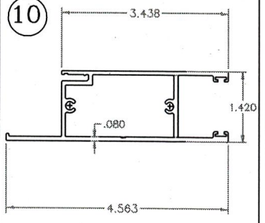
11 LOCK STILE



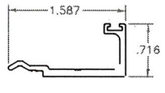
12 INTERLOCK



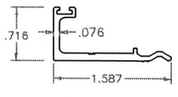
13 REVERSE INTERLOCK



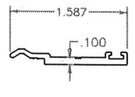
10 TOP/BOTTOM RAIL



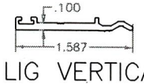
23 7/16" LAMINATED HORIZONTAL GLAZING BEAD



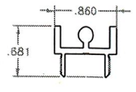
24 7/16" LAMINATED VERTICAL GLAZING BEAD



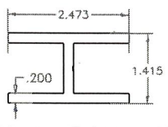
26 LIG HORIZONTAL GLAZING BEAD



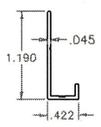
25 LIG VERTICAL GLAZING BEAD



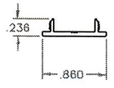
16 SILL RAIL & ANCHOR COVER



21 INTERLOCK & BOX ASTRAGAL REINFORCING BAR



20 FIXED PANEL CLIP



17 HEAD & JAMB ANCHOR COVERS



18 INTERLOCK END CAP

ALL EXTRUSIONS TO BE 6063-T6 ALUMINUM

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

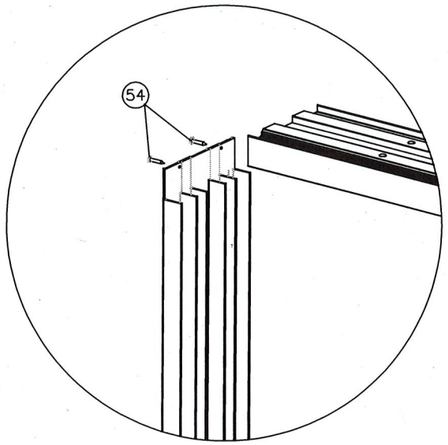
THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

APR 1 1 2024

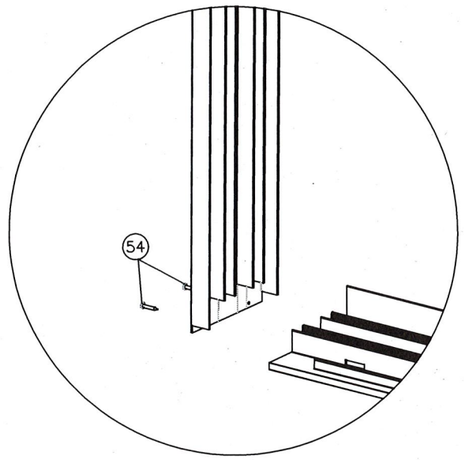
DATE

SHEET DESCRIPTION:
EXTRUSION DRAWINGS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:
DWG #: CWS-1230	REV #:
SCALE: AS NOTED	SHEET 11 OF 12



FRAME TOP CORNER

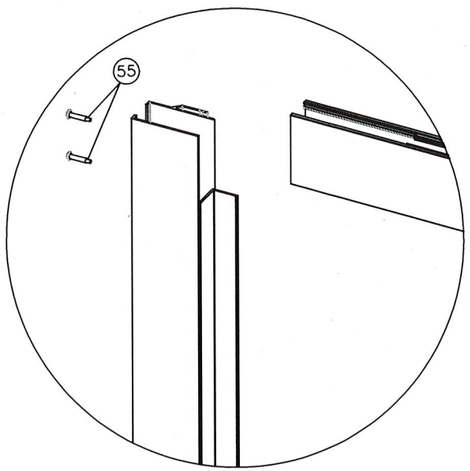


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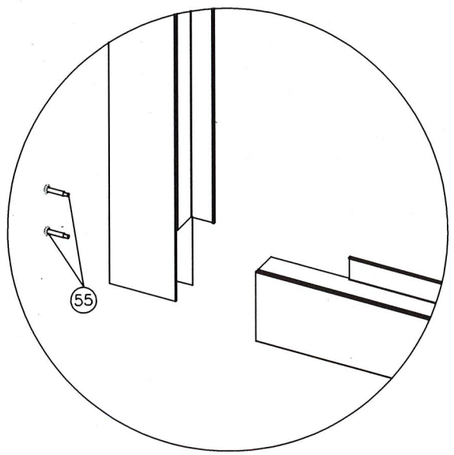
7800 SLIDING GLASS DOOR - BILL OF MATERIALS		
ITEM #	Part #	DESCRIPTION
1	SP3510-1	2 TRACK HEAD
2	SP3510-3	2 TRACK SILL
3	SP3510-2	2 TRACK JAMB
4	SP3510-5	3 TRACK HEAD
5	SP3510-6	3 TRACK SILL
6	SP3510-4	3 TRACK JAMB
7	SP3510-13	4 TRACK HEAD
8	SP3510-9	4 TRACK SILL
9	SP3510-7	4 TRACK JAMB
10	SP3510-27	TOP & BOTTOM RAIL
11	SP3510-23	LOCKSTILE
12	SP3510-22	INTERLOCK
13	SP3510-25	REVERSE INTERLOCK
14	SP3510-24	STANDARD ASTRAGAL
15	SP3510-16	BOX ASTRAGAL
16	SP3510-26	SILL RAIL & ANCHOR COVER
17	SP3510-19	HEAD & JAMB ANCHOR COVER PLATE
18	SP3510-28	INTERLOCK END CAP
19	SP3510-29	3in SILL RISER
20	SP3510-17	FIXED PANEL ANCHOR CLIP
21	SP3510-18	INTERLOCK "H" REINFORCING
22	SP3510-30	4in SILL RISER
23	SP6788-1	7'16" Laminated Glass HORIZONTAL BEAD
24	SP6788-2	7'16" Laminated Glass VERTICAL BEAD
25	SP6788-3	IMPACT -INSULATED VERTICAL BEAD
26	SP6788-4	IMPACT-INSULATED HORIZONTAL BEAD
27	SP6788-5	5/8" INSULATED VERTICAL BEAD
28	-------	-------
29	-------	-------
30	SP4921-2	SCREEN VERTICAL RAIL
31	SP4921-3	SCREEN VERTICAL RAIL ASTRAGAL ADAPTER

7800 SLIDING GLASS DOOR - BILL OF MATERIALS		
ITEM #	Part #	DESCRIPTION
32	SP4921-4	SCREEN WEATHERSTRIP NARROW ADAPTER
33	SP4921-5	SCREEN WEATHERSTRIP EXTENDED ADAPTER
34	L-9215	POCKET "P" JAMB HOOK
35	1138/750 VY4	750 3/16 "Glazing WHT 500
36	1138/750 VY4	750 3/16 "Glazing BLK 500
37	-------	Dow Corning 899 Neutral Cure Silicone
38	94-LSWS-PLUG-BRZ	LOCK STILE WEATHERSTRIPPING PLUG (Bronze)
39	94-LSWS-PLUG-WHT	LOCK STILE WEATHERSTRIPPING PLUG (White)
40	94-ILWS-PLUG-BRZ	INTERLOCK WEATHERSTRIPPING PLUG (Bronze)
41	94-ILWS-PLUG-WHT	INTERLOCK WEATHERSTRIPPING PLUG (White)
42	LB15	Jamb Bumper CLR 3200
43	-------	Roller Adjustment Screw Hole Plug
44	-------	Fin Seal 187 X 210 (Lock Stile, T & B Rails, & Astragal)
45	-------	Fin Seal 187 X 150 (Interlock, P Hook, & Glazing Bead)
46	-------	1-1/4" x 1-1/2" Adhesive Multiple Fin Seal Pile Pad (T&B Rail Ends)
47	ADH-3008-84	2817 GEMINI II STAINLESS DBL MORTISE LOCK (with screws)
48	ADH-3011-84	2496 SERIES STAINLESS MULTIPOINT KEEPER (with screws)
49	TA-81-PRN-212W-SS	1981 NYLON WHEEL TANDEM ROLLER (optional)
50	TA-81-PRS-212W-SS	1981 STAINLESS WHEEL TANDEM ROLLER
51	-------	OLYMPUS SGD "D" HANDLE SET (Locking)
52	-------	OLYMPUS SGD "D" HANDLE SET (Dummy)
53	-------	FLUSH HANDLE SET (optional)
54	-------	Frame Assby Screw #6 x 3/4" FH Phillips
55	-------	Panel Assby Screw # 10 x 1" PH Phillips
56	-------	Panel Roller Attachment Screw # 8 x 1/2" FH or PH Phillips
57	-------	Fixed Panel Clip Attachment Screw # 10 x 3/4" PH Phillips
58	-------	Screen Panel Rollers
59	-------	Screen Panel Lock & Keeper Set (with screws)
60	-------	Closed Cell Foam Frame Gasket
61	-------	1/4" x 3/4" Self Adhesive Pile Pad (T&B Rail Ends)
62	-------	1/2" x 1/2" x 2" Open Cell Foam Pad (at sill weeps)
63	-------	1-1/4" x 1-1/2" Adhesive Multiple Fin Pad (H&S @ Interlock Ends)

ALL EXTRUSIONS TO BE 6063–T6 ALUMINUM



PANEL TOP CORNER



PANEL BOTTOM CORNER

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE APR 11 2024

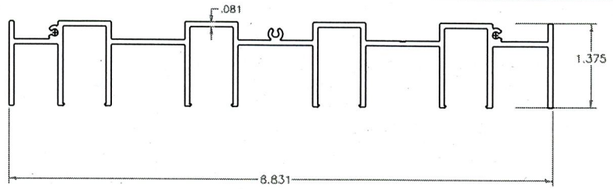
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BILL OF MATERIALS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

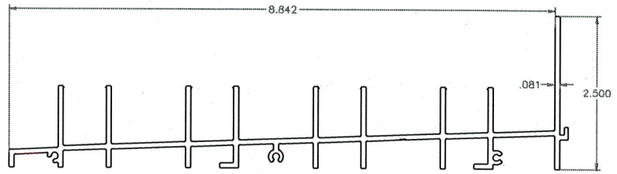
DWG #: CWS-1230 REV #:

SCALE: AS NOTED

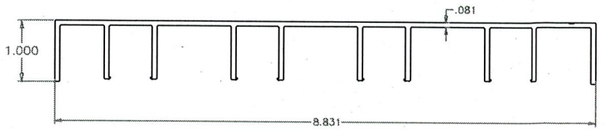
SHEET 12 OF 12



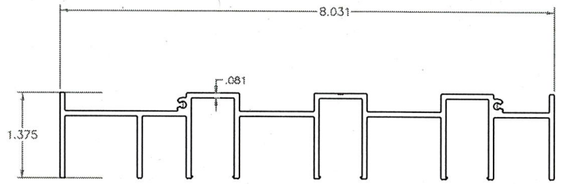
7 4T FRAME HEAD



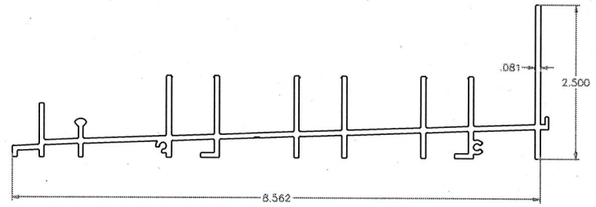
8 4T FRAME SILL



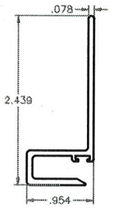
9 4T FRAME JAMB



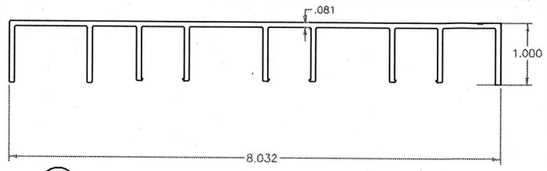
4 3T FRAME HEAD



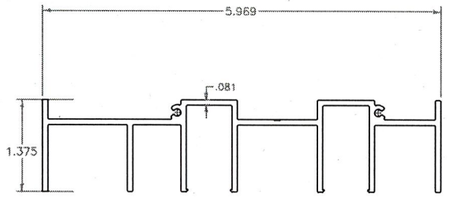
5 3T FRAME SILL



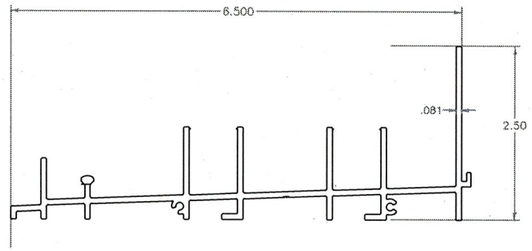
34 P-HOOK



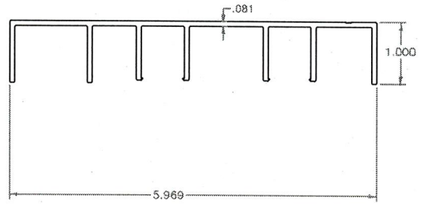
6 3T FRAME JAMB



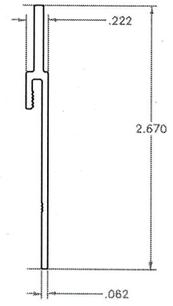
1 2T FRAME HEAD



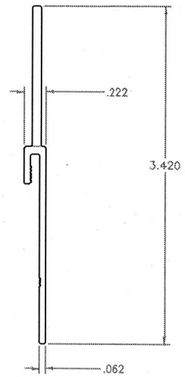
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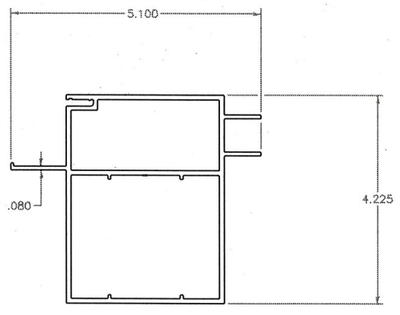
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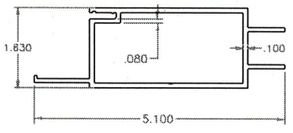
19 3 INCH SILL RISER



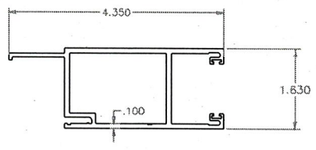
22 4 INCH SILL RISER



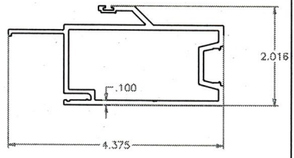
15 BOX ASTRAGAL



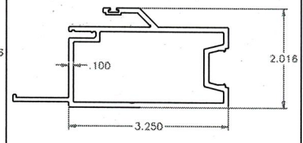
14 STANDARD ASTRAGAL



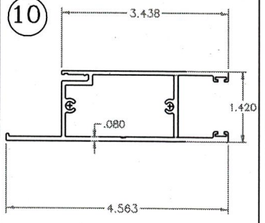
11 LOCK STILE



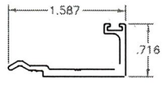
12 INTERLOCK



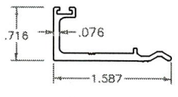
13 REVERSE INTERLOCK



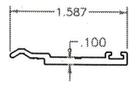
10 TOP/BOTTOM RAIL



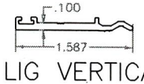
23 7/16" LAMINATED HORIZONTAL GLAZING BEAD



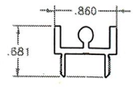
24 7/16" LAMINATED VERTICAL GLAZING BEAD



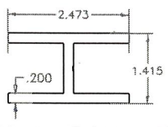
26 LIG HORIZONTAL GLAZING BEAD



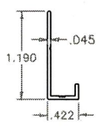
25 LIG VERTICAL GLAZING BEAD



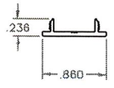
16 SILL RAIL & ANCHOR COVER



21 INTERLOCK & BOX ASTRAGAL REINFORCING BAR



20 FIXED PANEL CLIP



17 HEAD & JAMB ANCHOR COVERS



18 INTERLOCK END CAP

ALL EXTRUSIONS TO BE 6063-T6 ALUMINUM

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

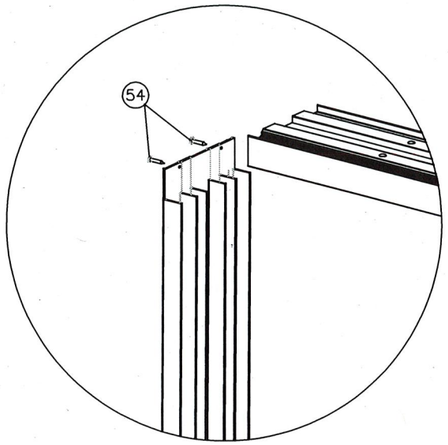
THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

APR 1 1 2024

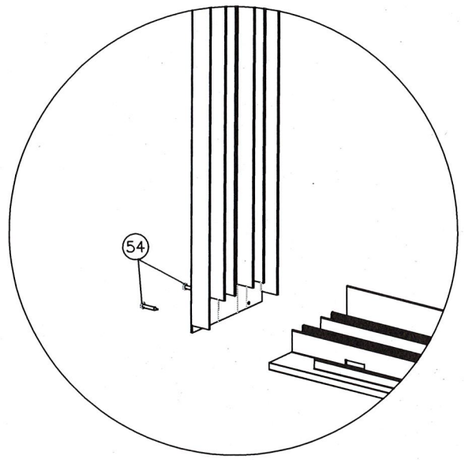
DATE

SHEET DESCRIPTION:
EXTRUSION DRAWINGS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:
DWG #: CWS-1230	REV #:
SCALE: AS NOTED	SHEET 11 OF 12



FRAME TOP CORNER

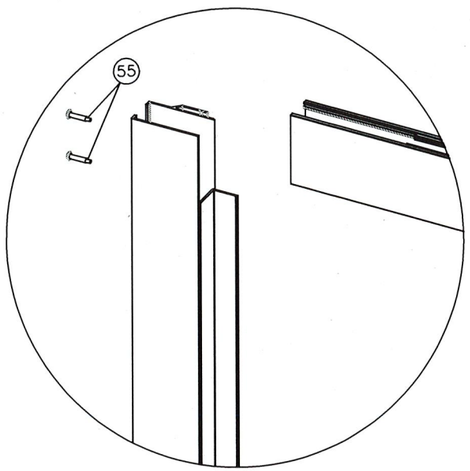


FRAME BOTTOM CORNER

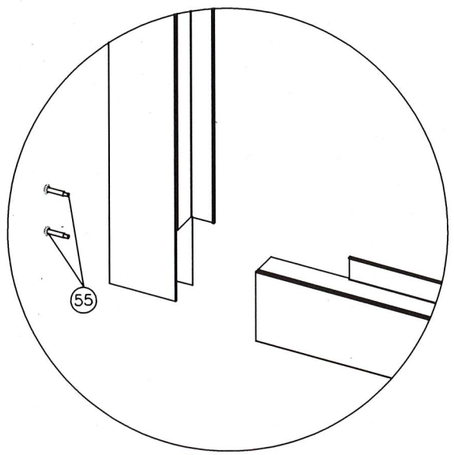
7800 SLIDING GLASS DOOR - BILL OF MATERIALS		
ITEM #	Part #	DESCRIPTION
1	SP3510-1	2 TRACK HEAD
2	SP3510-3	2 TRACK SILL
3	SP3510-2	2 TRACK JAMB
4	SP3510-5	3 TRACK HEAD
5	SP3510-6	3 TRACK SILL
6	SP3510-4	3 TRACK JAMB
7	SP3510-13	4 TRACK HEAD
8	SP3510-9	4 TRACK SILL
9	SP3510-7	4 TRACK JAMB
10	SP3510-27	TOP & BOTTOM RAIL
11	SP3510-23	LOCKSTILE
12	SP3510-22	INTERLOCK
13	SP3510-25	REVERSE INTERLOCK
14	SP3510-24	STANDARD ASTRAGAL
15	SP3510-16	BOX ASTRAGAL
16	SP3510-26	SILL RAIL & ANCHOR COVER
17	SP3510-19	HEAD & JAMB ANCHOR COVER PLATE
18	SP3510-28	INTERLOCK END CAP
19	SP3510-29	3in SILL RISER
20	SP3510-17	FIXED PANEL ANCHOR CLIP
21	SP3510-18	INTERLOCK "H" REINFORCING
22	SP3510-30	4in SILL RISER
23	SP6788-1	7'16" Laminated Glass HORIZONTAL BEAD
24	SP6788-2	7'16" Laminated Glass VERTICAL BEAD
25	SP6788-3	IMPACT -INSULATED VERTICAL BEAD
26	SP6788-4	IMPACT-INSULATED HORIZONTAL BEAD
27	SP6788-5	5/8" INSULATED VERTICAL BEAD
28	-------	-------
29	-------	-------
30	SP4921-2	SCREEN VERTICAL RAIL
31	SP4921-3	SCREEN VERTICAL RAIL ASTRAGAL ADAPTER

7800 SLIDING GLASS DOOR - BILL OF MATERIALS		
ITEM #	Part #	DESCRIPTION
32	SP4921-4	SCREEN WEATHERSTRIP NARROW ADAPTER
33	SP4921-5	SCREEN WEATHERSTRIP EXTENDED ADAPTER
34	L-9215	POCKET "P" JAMB HOOK
35	1138/750 VY4	750 3/16 "Glazing WHT 500
36	1138/750 VY4	750 3/16 "Glazing BLK 500
37	-------	Dow Corning 899 Neutral Cure Silicone
38	94-LSWS-PLUG-BRZ	LOCK STILE WEATHERSTRIPPING PLUG (Bronze)
39	94-LSWS-PLUG-WHT	LOCK STILE WEATHERSTRIPPING PLUG (White)
40	94-ILWS-PLUG-BRZ	INTERLOCK WEATHERSTRIPPING PLUG (Bronze)
41	94-ILWS-PLUG-WHT	INTERLOCK WEATHERSTRIPPING PLUG (White)
42	LB15	Jamb Bumper CLR 3200
43	-------	Roller Adjustment Screw Hole Plug
44	-------	Fin Seal 187 X 210 (Lock Stile, T & B Rails, & Astragal)
45	-------	Fin Seal 187 X 150 (Interlock, P Hook, & Glazing Bead)
46	-------	1-1/4" x 1-1/2" Adhesive Multiple Fin Seal Pile Pad (T&B Rail Ends)
47	ADH-3008-84	2817 GEMINI II STAINLESS DBL MORTISE LOCK (with screws)
48	ADH-3011-84	2496 SERIES STAINLESS MULTIPOINT KEEPER (with screws)
49	TA-81-PRN-212W-SS	1981 NYLON WHEEL TANDEM ROLLER (optional)
50	TA-81-PRS-212W-SS	1981 STAINLESS WHEEL TANDEM ROLLER
51	-------	OLYMPUS SGD "D" HANDLE SET (Locking)
52	-------	OLYMPUS SGD "D" HANDLE SET (Dummy)
53	-------	FLUSH HANDLE SET (optional)
54	-------	Frame Assby Screw #6 x 3/4" FH Phillips
55	-------	Panel Assby Screw # 10 x 1" PH Phillips
56	-------	Panel Roller Attachment Screw # 8 x 1/2" FH or PH Phillips
57	-------	Fixed Panel Clip Attachment Screw # 10 x 3/4" PH Phillips
58	-------	Screen Panel Rollers
59	-------	Screen Panel Lock & Keeper Set (with screws)
60	-------	Closed Cell Foam Frame Gasket
61	-------	1/4" x 3/4" Self Adhesive Pile Pad (T&B Rail Ends)
62	-------	1/2" x 1/2" x 2" Open Cell Foam Pad (at sill weeps)
63	-------	1-1/4" x 1-1/2" Adhesive Multiple Fin Pad (H&S @ Interlock Ends)

ALL EXTRUSIONS TO BE 6063–T6 ALUMINUM



PANEL TOP CORNER



PANEL BOTTOM CORNER

CWS
1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

REVISIONS

NO.:	DESCRIPTION:	BY:	DATE:
A			

THOMAS J. SOTOS
PROFESSIONAL ENGINEER
FL LIC. # 55225

SEAL

THOMAS J. SOTOS LICENSE No 55225 STATE OF FLORIDA PROFESSIONAL ENGINEER

DATE APR 11 2024

SHEET DESCRIPTION:
BILL OF MATERIALS

DRAWN BY:	DATE:
Tom Sotos	4/1/2024
REV. BY:	DATE:

DWG #: CWS-1230 REV #:

SCALE: AS NOTED

SHEET 12 OF 12

1900 SW 44TH AVE.
OCALA, FLORIDA 34474
WWW.CWS.CC

SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

Product Description:
CWS Series 7800 Aluminum Sliding Glass Door, Large Missile Impact, 5'x8' and 4'x10' nominal panel sizes max.

Manufacturer:
CWS 1900 SW 44th Ave. Ocala, Florida 34474

Statement of Compliance: This report evaluates the above-listed product per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). This product complies with the requirements of the 2023 Florida Building Code including the High Velocity Hurricane Zone. The product testing standards performed are outlined below.

Technical Documentation:
1) This report prepared by Thomas J. Sotos, P.E., at 8501 NW 90th Street Medley Florida 33166
2) Product Approval drawings CWS-1230 Sheets 1-12, signed and sealed by Thomas J. Sotos, P.E.
3) Test Reports as summarized on sheet 3 of this document, from Fenestration Testing Laboratories, Medley, FL signed and sealed by Idalmis Ortega, P.E. Testing Performed: TAS 201/202/203 1994, AAMA/WDMA/CSA 101/I.S.2/A440- 2008, and ASTM E 1886- 19/1996-20 FBC 2023
4) Supplemental Calculations to support CWS-1230 Sheets 1-12, signed and sealed by Thomas J. Sotos, P.E.

Installation: Units must be installed according to product approval document CWS-1230 Sheets 1-12.

Limitations of Use: This product:
- May be used in up to 51-1/4" x 117 11/16" panel sizes (120" max. door height), with glass types and max. glass daylight sizes as shown in CWS-1230 Sheets 1-12
- May be used in up to 63-3/8" x 93 11/16" panel sizes (60" max. door width), with glass types and max. glass daylight sizes as shown in CWS-1230 Sheets 1-12
- Achieves design pressures of up to +/-90 psf
- Is Large Missile Impact Resistant and does not require the use of shutters
- May be used in the High Velocity Hurricane Zone

1900 SW 44TH AVE.
OCALA, FLORIDA 34474
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SGD-7800
ALUMINUM IMPACT SLIDING GLASS DOOR (L.M.I.)

- Requires Kuraray (DuPont) SentryGlas Interlayer per Miami-Dade NOA #23-0717.30, or Kuraray PVB Interlayer per Miami-Dade NOA #23-0717.28, or Eastman Saflex PVB Interlayer per Miami-Dade NOA #23-0713.18.

Certification of Independence: I do not have, nor do I intend to acquire, nor will I acquire, a financial interest in Fenestration Testing Laboratory, nor do I intend to acquire, nor will I acquire, a financial interest in any other entity involved in the testing or approval process of this product.

Thomas J. Sotos, P.E.
FL PE# 55225
January 23, 2024



AS-TESTED MIAMI-DADE BCCO APPROVED SGD TEST PROGRAM SUMMARY

MOCKUP #	FTL Lab #	TESTS		FRAME		PANEL		REIN.. ..FORCING	ASTRAGAL TYPE	GLASS SIZE		GLASS TYPE							
		PA TEST TYPES	PSF	TYPE	SIZE	SIZE	CONFIG.			WIDTH	HEIGHT	PANEL 1		PANEL 2		PANEL 3		PANEL 4	
1	8693	201- **FULL** 202 -203 *No Sill Riser* *2-5/8" Sill Riser* *3-7/16" Sill Riser* *3-5/8" Sill Riser*	75 + 5 / 33.3 + 9/ 60 + 12.5 / 83.3 + 13.5 / 90	2T	204 X 96"	4 X 8'	XXXXp Exterior	YES	BOX	43-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	NYLON ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	KURARAY-TROSIFOL PVB	NYLON ROLLERS
1 - SGP	9873	201- 202 **Loads** -203	90	2T	204 X 96"	4 X 8'	XXXXp Exterior	YES	BOX	43-7/16"	86-9/16"	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	NYLON ROLLERS	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	NYLON ROLLERS
2	9139	201- **FULL** 202 -203 *No Sill Riser* *2-5/8" Sill Riser* *3-7/16" Sill Riser*	90 + 5 / 33.3 + 9 / 60 + 13 / 90	2T	192 X 96"	4 X 8'	OXXX	YES	BOX	43-7/16"	86-9/16"	KURARAY SGP	FIXED	KURARAY SGP	NYLON ROLLERS	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	NYLON ROLLERS
3	8695	201- **FULL** 202 -203 *No Sill Riser* *2-5/8" Sill Riser* *3-5/8" Sill Riser*	75 + 5 / 33.3 + 9/ 60 + 13.5 / 90	2T	204 X 96"	4 X 8'	XXXXp Exterior	YES	BOX	43-7/16"	86-9/16"	INSULATED-EASTMAN SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	NYLON ROLLERS	INSULATED-KURARAY TROFISOL PVB	STEEL ROLLERS	INSULATED-KURARAY TROFISOL PVB	NYLON ROLLERS
3 - SGP	9869	201- 202 **Loads** -203	90	2T	204 X 96"	4 X 8'	XXXXp Exterior	YES	BOX	43-7/16"	86-9/16"	INSULATED-KURARAY SGP	STEEL ROLLERS	INSULATED-KURARAY SGP	NYLON ROLLERS	INSULATED-KURARAY SGP	STEEL ROLLERS	INSULATED-KURARAY SGP	NYLON ROLLERS
4	8696	201- 202 **Loads** -203	61	2T	192 X 96"	4 X 8'	XXXX	**NO**	**STD**	43-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	NYLON ROLLERS
5	8697	201- 202 **Loads** -203	81	2T	240 - 3/8" X 96"	**5 X 8'**	XXXO	YES	BOX	55-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	FIXED
6	8698	201- 202 **Loads** -203	51	2T	240 - 3/8" X 96"	**5 X 8'**	XXXO	**NO**	**STD**	55-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	FIXED
7	8670	201- 202 **Loads** -203	66	2T	192 - 3/8" X 120"	**4 X 10'**	XXXX	YES	BOX	43-7/16"	110-9/16"	KURARAY-TROSIFOL PVB	STEEL ROLLERS	KURARAY-TROSIFOL PVB	NYLON ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	INSULATED-KURARAY TROFISOL PVB	NYLON ROLLERS
8	8699	201- 202 **Loads** -203	90	**4T**	204 X 96"	4 X 8'	XXXXp Exterior	YES	n/a	43-7/16"	86-9/16"	KURARAY-TROSIFOL PVB	NYLON ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	NYLON ROLLERS
8 - SGP	9236	201- 202 **Loads** -203	90	**4T**	204 X 96"	4 X 8'	XXXXp Exterior	YES	n/a	43-7/16"	86-9/16"	KURARAY SGP	NYLON ROLLERS	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	NYLON ROLLERS
9	8700	201-203	75	**4T**	188 X 96"	4 X 8'	OXXX	YES	n/a	43-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	FIXED	EASTMAN -SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	NYLON ROLLERS
9 - SGP	9468	201- 202 **Loads** -203	90	**4T**	188 X 96"	4 X 8'	OXXX	YES	n/a	43-7/16"	86-9/16"	KURARAY SGP	FIXED	KURARAY SGP	NYLON ROLLERS	KURARAY SGP	STEEL ROLLERS	KURARAY SGP	NYLON ROLLERS
10	8701	201- 202 **Loads** -203	90	**4T**	188 X 96"	4 X 8'	XXXX	YES	n/a	43-7/16"	86-9/16"	INSULATED-EASTMAN SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	NYLON ROLLERS	INSULATED-EASTMAN SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	NYLON ROLLERS
11	8702	201- 202 **Loads** -203	70	**4T**	204 X 96"	4 X 8'	XXXXp Exterior	**NO**	n/a	43-7/16"	86-9/16"	KURARAY-TROSIFOL PVB	NYLON ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	INSULATED-KURARAY TROFISOL PVB	NYLON ROLLERS
12	8703	201- **FULL** 202 -203 *No Sill Riser* *2-5/8" Sill Riser* *3-7/16"" Sill Riser*	75 + 5 / 33.3 + 9 / 60 + 13.5 / 90	**4T**	236 X 96"	**5 X 8'**	XXXO	YES	n/a	55-7/16"	86-9/16"	KURARAY-TROSIFOL PVB	NYLON ROLLERS	KURARAY-TROSIFOL PVB	STEEL ROLLERS	INSULATED-KURARAY TROFISOL PVB	NYLON ROLLERS	INSULATED-KURARAY TROFISOL PVB	FIXED
13	8704	201- 202 **Loads** -203	60	**4T**	236 X 96"	**5 X 8'**	XXXO	**NO**	n/a	55-7/16"	86-9/16"	EASTMAN -SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	NYLON ROLLERS	EASTMAN -SAFLEX PVB	FIXED
14	8705	201- **FULL** 202 -203 *No Sill Riser* *3-1/4" Sill Riser* *4" Sill Riser*	60 + 6 / 40 + 9 / 60 + 13 / 86.6	**4T**	203 - 3/4" x 120"	**4 X 10'**	XXXXp Exterior	YES	n/a	43-7/16"	110-9/16"	EASTMAN -SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS	INSULATED-EASTMAN SAFLEX PVB	STEEL ROLLERS	EASTMAN -SAFLEX PVB	STEEL ROLLERS