

SYSTEM GT 1175

MODELS 1175 FBO AND 1175 FS
AUTOMATIC ALUMINUM SLIDING GLASS DOOR W/ ALUMINUM REINFORCEMENTS
NON IMPACT, LARGE (LEVELS D & E) AND SMALL IMPACT RESISTANT



Pedro De Figueiredo
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09/01/2021

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PRODUCT:
SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED



MANUFACTURER:
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
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DATE:
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DRAWING #
21-097
SHEET
1 OF 24

GENERAL NOTES: (FLORIDA BUILDING CODE 2020, 7H EDITION - HVHZ)

- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2020 - 7TH EDITION, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN AUTOMATIC SLIDING GLASS DOOR DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL. PRODUCT IS RATED FOR LARGE (LEVELS D & E), SMALL MISSILE AND NON IMPACT.
- 3- LABELING: PRODUCT MUST BE LABELED IN ACCORDANCE WITH THE FBC 2020, CHAPTER 17.

"NABCO ENTRANCES - MUSKEGO - WISCONSIN
SYSTEM GT 1175 SERIES AUTOMATIC SLIDING GLASS DOOR
FLORIDA APPROVED"

- 4- PROJECT DESIGN PRESSURES: THE PROJECT DESIGN PRESSURES MUST BE CALCULATED BASED ON THE ASCE 7-16, BY A PROFESSIONAL ARCHITECT OR ENGINEER. THE PROJECT DESIGN PRESSURE, AS DETERMINED BY ASCE 7-16, ARE PERMITTED TO BE MULTIPLIED BY 0.6 AND THEY MUST NOT EXCEED THE ALLOWABLE PRODUCT PRESSURE SPECIFIED HERE IN.
- 5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T5 ALLOY OR AS NOTED, IMPACT GLAZING TO BE LAMINATED GLASS AND NON IMPACT GLAZING TO BE FULLY TEMPERED AS SPECIFIED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR SPACING AND LOADS MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE FOR A SPECIFIC PROJECT.
- 8- WOOD BUCKS (1X AND 2X) BY OTHERS, MUST BE PROPERLY ANCHORED TO TRANSFER LOADS TO THE STRUCTURE.
- 9- DISSIMILAR MATERIALS: WHERE ALUMINUM IS IN CONTACT OR FASTENED TO DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, INSTALLATION SHALL MEET THE REQUIREMENTS OF CHAPTER M.7 OF THE ALUMINUM DESIGN MANUAL 2015.

INSTRUCTIONS TO USE THIS DRAWING TO VERIFY DOOR ADEQUACY PRESSURE

- STEP 1: ON SHEET 1, USE GENERAL NOTE 4 TO DETERMINE PROJECT DESIGN PRESSURE (DP).
- STEP 2: ON SHEET 4, SELECT ALLOWABLE PRESSURE USING TABLES 1 OR 2 BASED ON DOOR DIMENSIONS AND MODEL TYPE.
- STEP 3: ON SHEET 14 SELECT FRAME ANCHORING ALLOWABLE DESIGN PRESSURE CAPACITY FROM TABLES 3 (SILL) AND 4 (HEADER). SELECT JAMB ANCHORS PER MODEL TYPE
- STEP 4 : USE THE LOWEST ALLOWABLE DESIGNED PRESSURE FROM STEP 2 THROUGH 3 AND COMPARE WITH THE PROJECT DESIGN PRESSURE (DP) FROM STEP 1. ALLOWABLE PRESSURE MUST NOT EXCEED THE PROJECT DESIGN PRESSURE.

LEGEND:

FBO: FULL BREAKAWAY OPEN
FS: FIXED SIDELITE
FH: DOOR FINISHED HEIGHT
FW: DOOR FINISHED WIDTH
DM: DOOR MODULE
DOW: DOOR OPENING WIDTH
DOH: DOOR OPENING HEIGHT
DLO: DAYLIGHT OPENING
CVR: CONCEALED VERTICAL ROD
E.D.: EDGE DISTANCE

DIGITALLY SIGNED FOR 24 PAGES

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DOOR ALLOWABLE DESIGNED PRESSURES

MODEL GT1175 FBO - SHEET 4 - TABLE 1
MODEL GT1175 FS - SHEET 4 - TABLE 2
FRAME ANCHORAGE - SHEET 14 - TABLES 3 & 4

REFER TO EACH MODEL TYPE FOR
ALLOWABLE DESIGN PRESSURES AND SIZES

TYPICAL ELEVATIONS
SYSTEM GT 1175 SERIES - FBO MODEL



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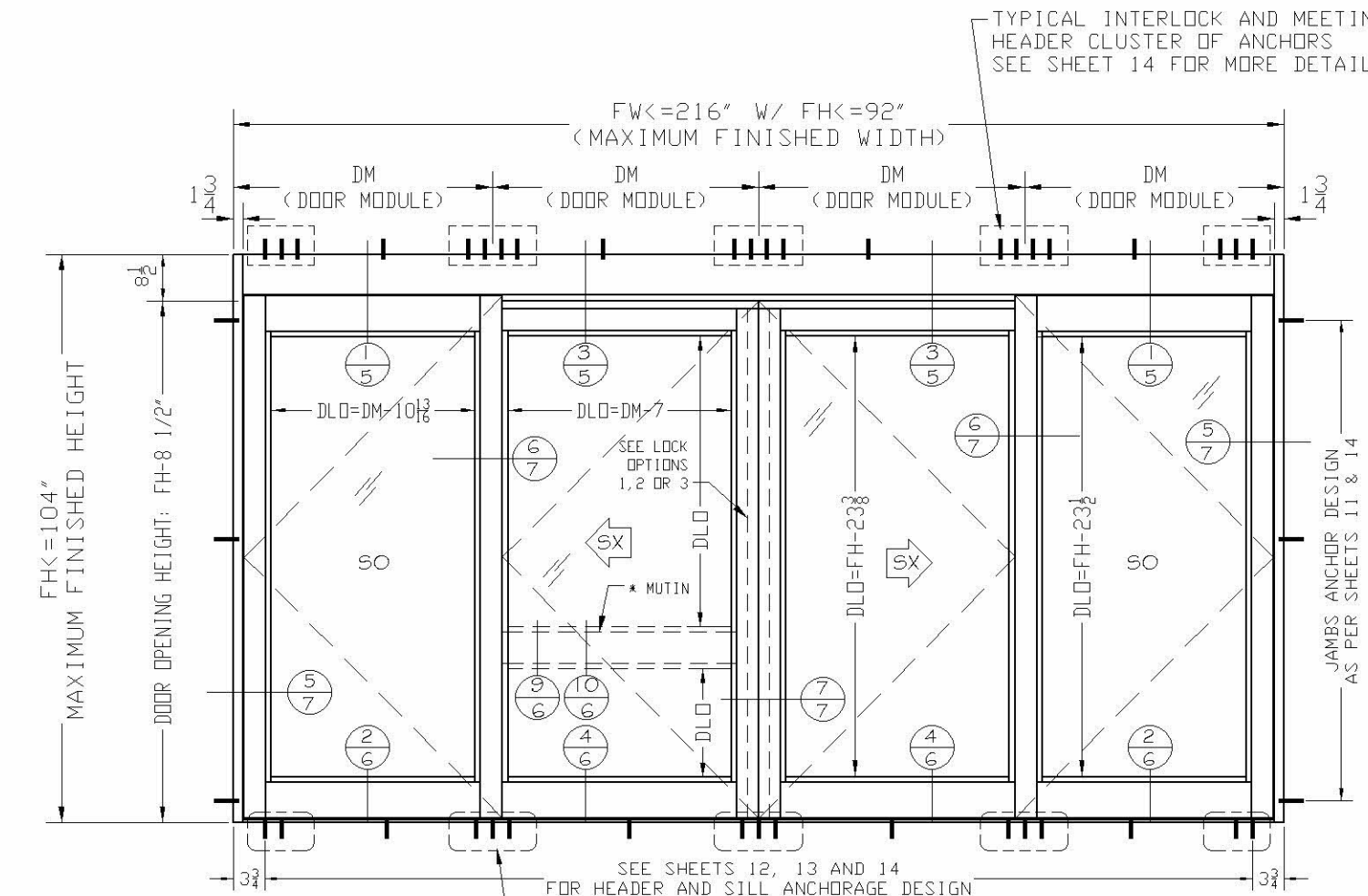


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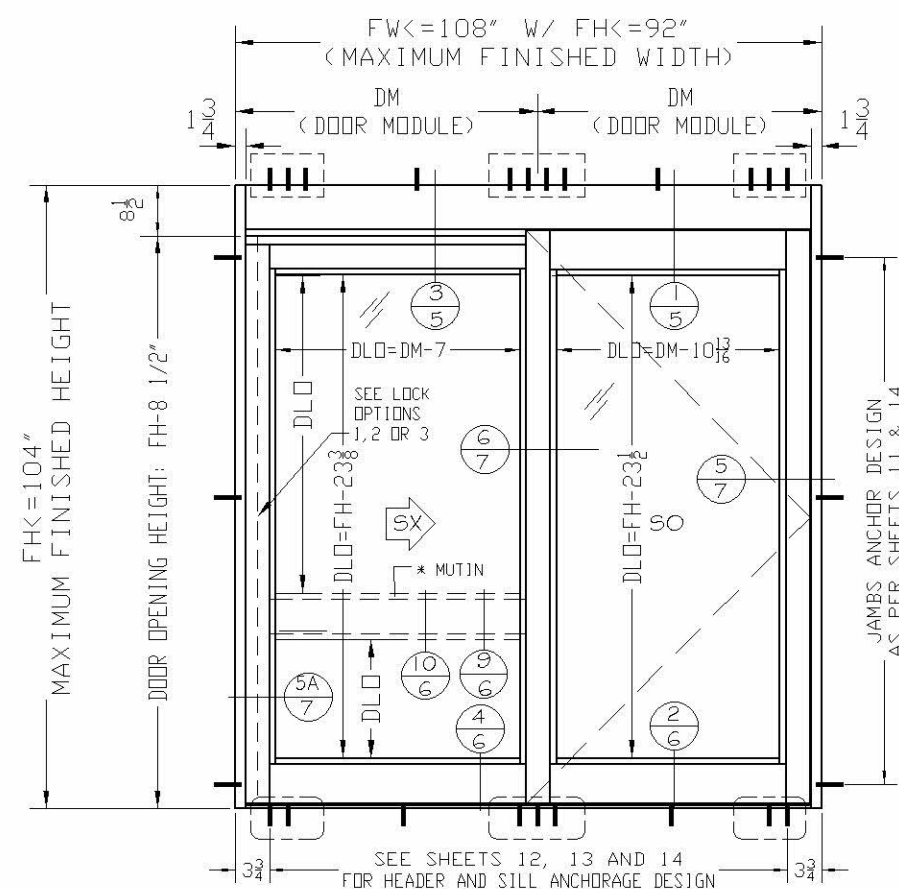
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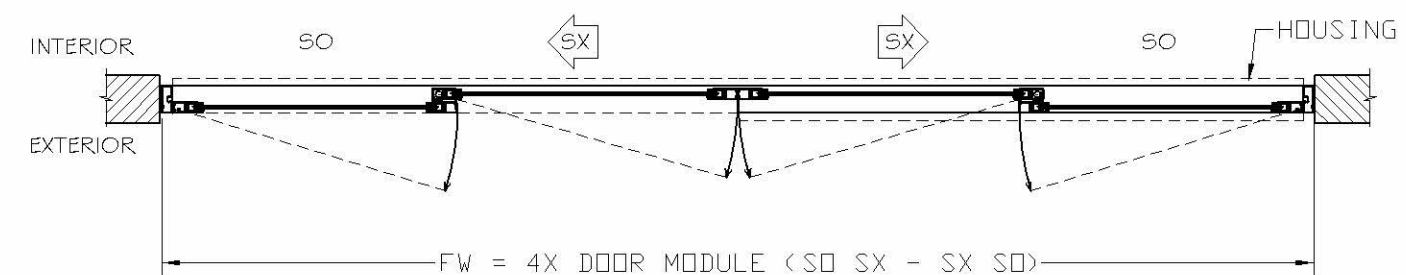
SO SX-SX SO
EXTERIOR VIEW

* MUTIN IS OPTIONAL FOR HARDWARE 1 AND 2
AND MANDATORY FOR HARDWARE 3 (PANIC)

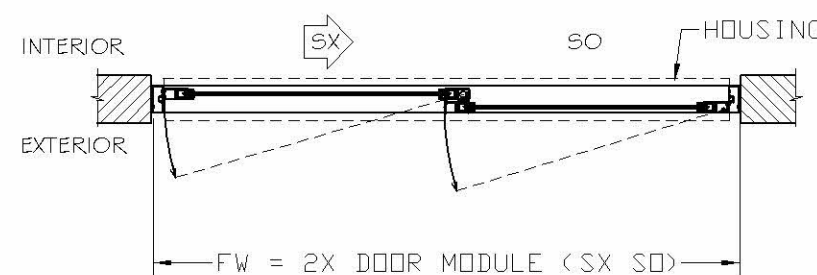
SEE TABLE 1 ON SHEET 4
FOR DESIGN PRESSURES



SX SO
EXTERIOR VIEW



DOOR MODULE:
DM= FW/ 4 FOR (SO SX-SX SO)
DM= FW/2 FOR (SO SX)



(4 PANELS) DOOR OPENING WIDTH: DOW= 2X DM-12
(2 PANELS) DOOR OPENING WIDTH: DOW= 1X DM- 6
DOOR OPENING HEIGHT: DOH= FH- 8 1/2"

A circular professional engineer seal for Pedro M. de Figueiredo. The outer ring contains the text "PEDRO M. DE FIGUEIREDO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by three stars. The inner circle contains the word "LICENSE" at the top, the license number "No. 52609" in the center, and "STATE OF FLORIDA" at the bottom, also separated by three stars. The seal has a red dotted border.

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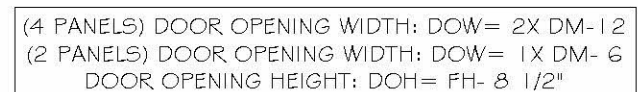
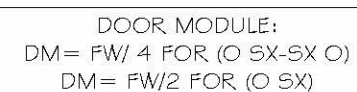
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* MUTIN IS OPTIONAL FOR FS MODEL DOOR
THEY CAN BE INSTALLED IN SX OR O PANELS

ET 4
RES

SX SO
EXTERIOR VIEW



ALLOWABLE DESIGNED WIND LOAD RATE
SYSTEM GT 1175 SERIES - FS AND FBO MODEL

SYSTEM GT 1175 SERIES - FBO MODEL
IMPACT RATE: NI, 5MI, LMI, LEVEL D, LEVEL E

TABLE 1 - MODEL 1175-FBO
ALLOWABLE DESIGNED PRESSURES (PSF)

FH (IN)	DM (IN)	PRESSURE (PSF) +/-	MODEL 1175-FBO CONFIGURATIONS NOTES:
92	36	105	1- SLIDING GLASS DOOR CAN BE CONFIGURED IN DIFFERENT WAYS BY USING THE APPROVED SECTIONS FOR EACH MODEL. 2- CONFIGURATIONS CAN BE MADE WITH 2 OR 4 MODULES AS LONG AS IT DOES NOT EXCEED THE MAXIMUM MODULE SIZES AND PRESSURES LISTED IN TABLE 1. 3- USE SECTIONS 1/5 AND 3/5 FOR HEADER DETAILS 4- USE SECTIONS 2/6 AND 4/6 FOR SILL DETAILS 5- USE SECTIONS 5/7 OR 5A/7 FOR JAMB DETAILS 6- USE SECTION 6/7 FOR INTERLOCK DETAIL 7- USE SECTION 7/7 FOR MEETING STILES DETAIL 8- OPTIONAL MID RAIL SECTION 9/6 (ANY PANEL) EXAMPLE FOR ALTERNATE CONFIGURATIONS 2 PANELS - SO SX - FW<= 108" (FH<= 92") 2 PANELS - SO SX - FW<= 96" (FH<= 104") 4 PANELS - SO SX-SX SO - FW<= 216" (FH<=92") 4 PANELS - SO SX-SX SO - FW<= 192" (FH<=104")
	39	97	
	42	90	
	45	84	
	48	79	
	54	70	
96	36	101	
	39	93	
	42	87	
	45	81	
	48	76	
	52	70	
100	36	97	
	39	90	
	42	83	
	45	78	
	48	73	
	49	70	
104	36	93	
	39	86	
	42	80	
	45	75	
	48	70	

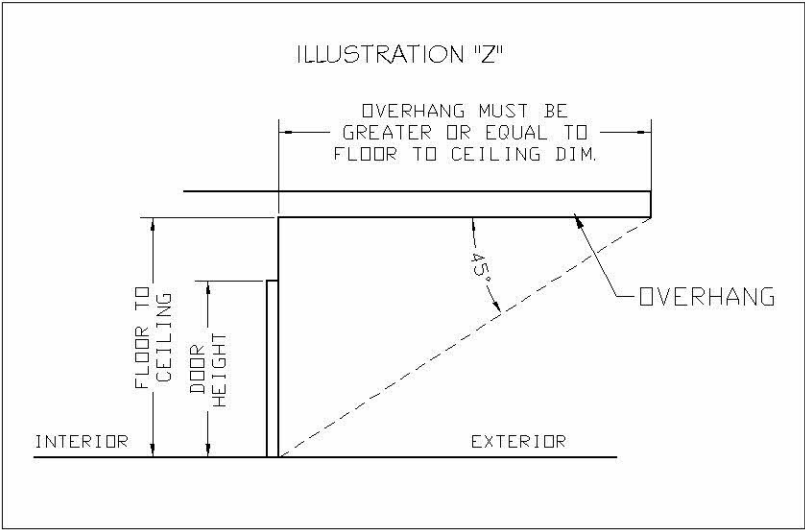
DOOR ARE NOT RATED FOR WATER INFILTRATION,
INSTALLATION TO MEET ILLUSTRATION "Z" BELOW.

SYSTEM GT 1175 SERIES - FS MODEL
IMPACT RATE: NI, 5MI, LMI, LEVEL D

TABLE 2 - MODEL 1175-FS
ALLOWABLE DESIGNED PRESSURES (PSF)

FH (IN)	DM (IN)	PRESSURE (PSF) +/-	MODEL 1175-FS CONFIGURATIONS NOTES:
92	36	105	1- SLIDING GLASS DOOR CAN BE CONFIGURED IN DIFFERENT WAYS BY USING THE APPROVED SECTIONS FOR EACH MODEL. 2- CONFIGURATIONS CAN BE MADE WITH 2 OR 4 MODULES AS LONG AS IT DOES NOT EXCEED THE MAXIMUM MODULE SIZES AND PRESSURES LISTED IN TABLE 2. 3- USE SECTIONS 10/8 AND 30/8 FOR HEADER DETAILS 4- USE SECTIONS 20/9 AND 40/9 FOR SILL DETAILS 5- USE SECTIONS 50/10 AND 50A/10 FOR JAMB DETAILS 6- USE SECTION 60/10 FOR INTERLOCK DETAIL 7- USE SECTION 70/10 FOR MEETING STILES DETAIL 8- OPTIONAL MID RAIL SECTION 9/9 (ANY PANEL) EXAMPLE FOR ALTERNATE CONFIGURATIONS 2 PANELS - O SX - FW<= 108" (FH<= 92") 2 PANELS - O SX - FW<= 96" (FH<= 104") 4 PANELS - O SX-SX O - FW<= 216" (FH<=92") 4 PANELS - O SX-SX O - FW<= 192" (FH<=104")
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	45	84	
	48	79	
	54	70	
96	36	101	
	39	93	
	42	87	
	45	81	
	48	76	
	52	70	
100	36	97	
	39	90	
	42	83	
	45	78	
	48	73	
	49	70	
104	36	93	
	39	86	
	42	80	
	45	75	
	48	70	

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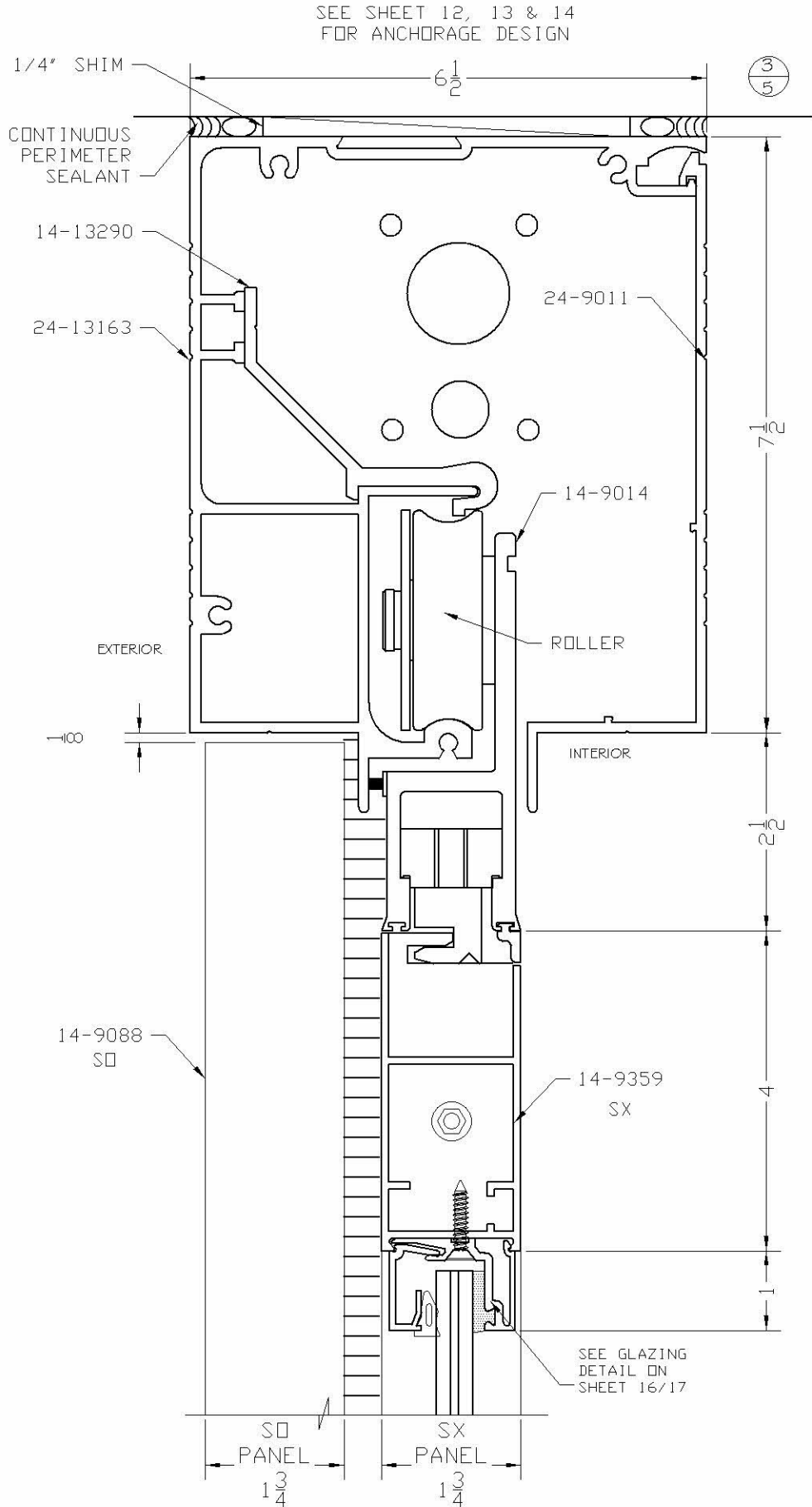
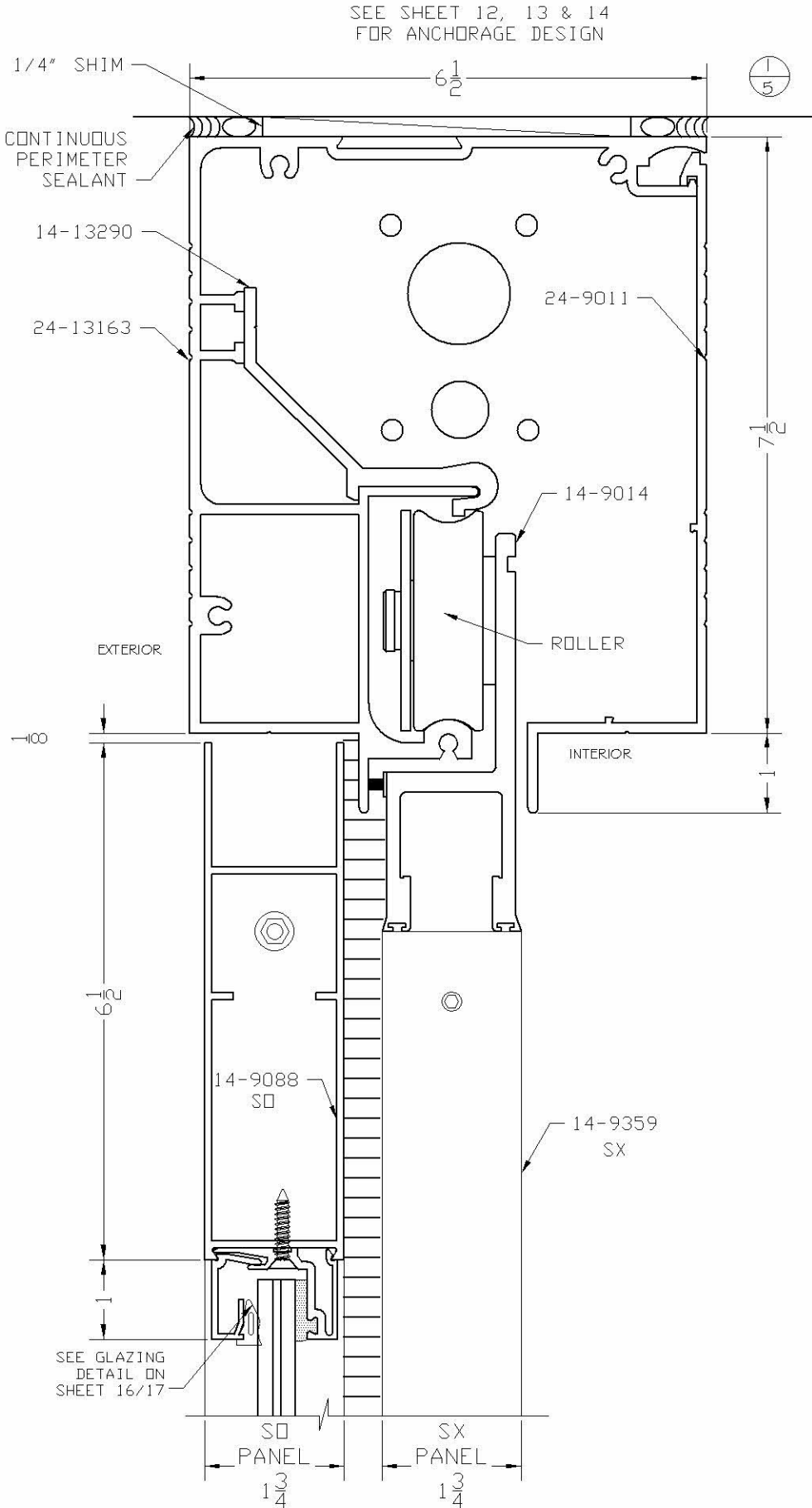
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HEADER SECTION DETAILS - 1175 FBO



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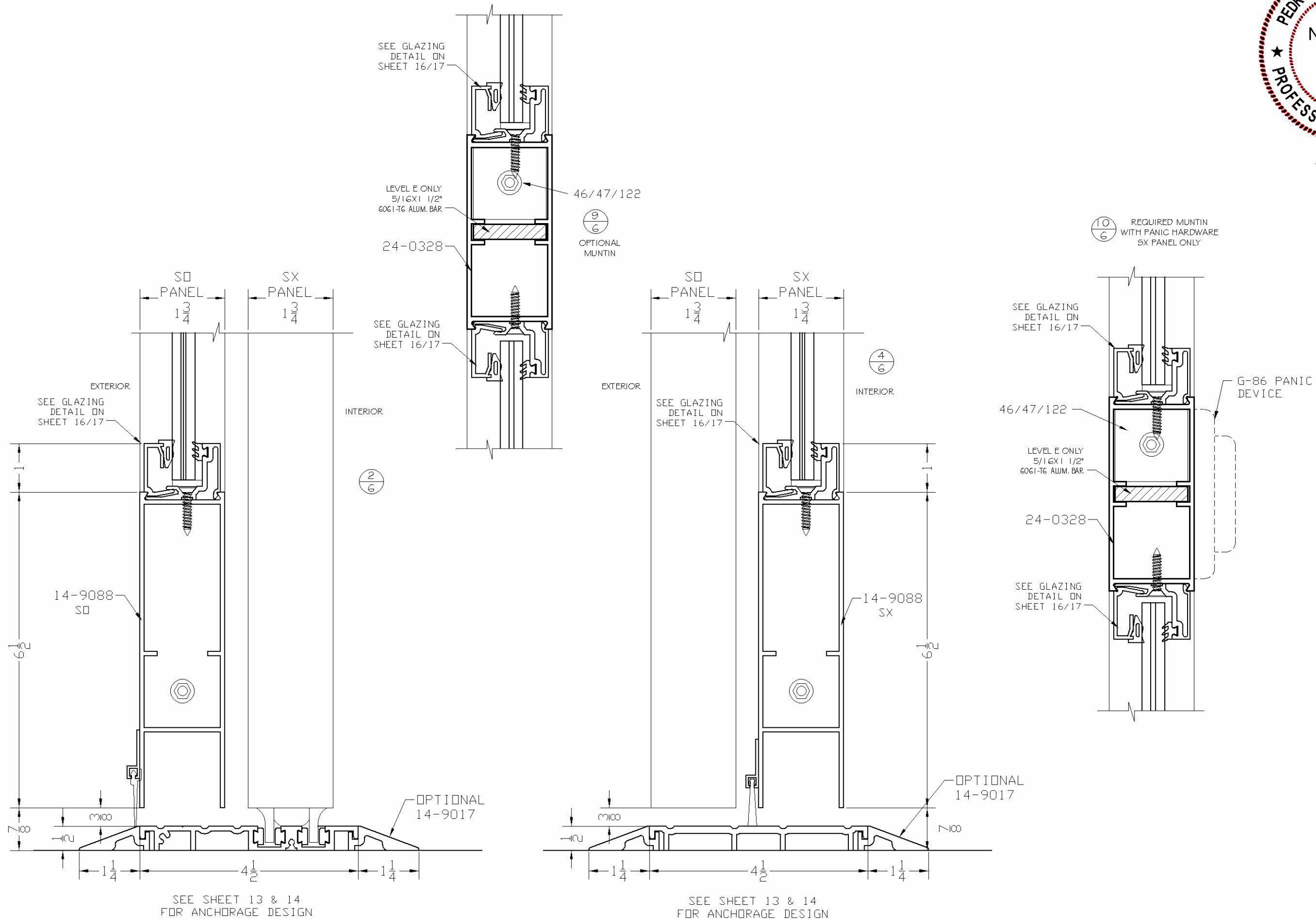
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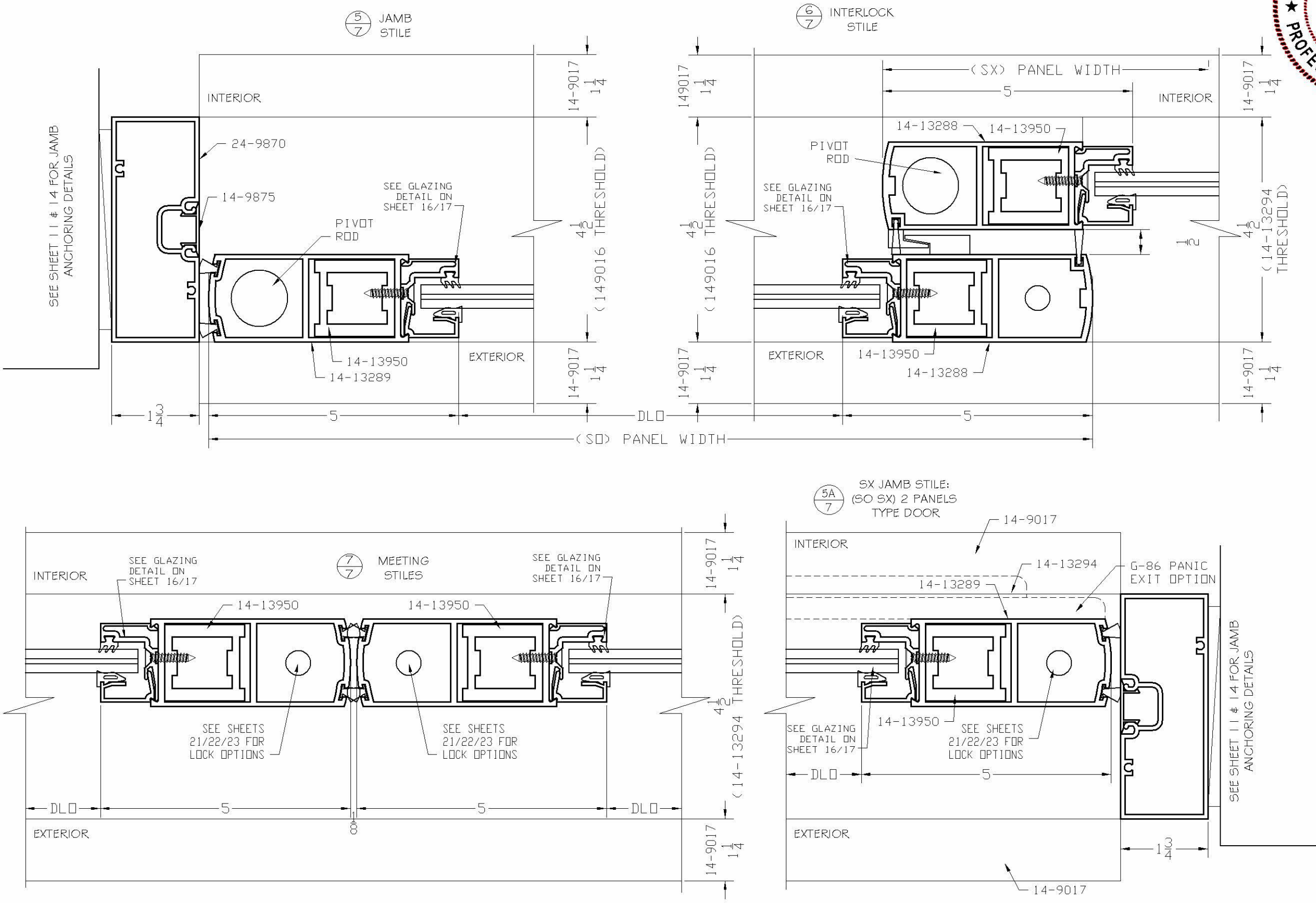
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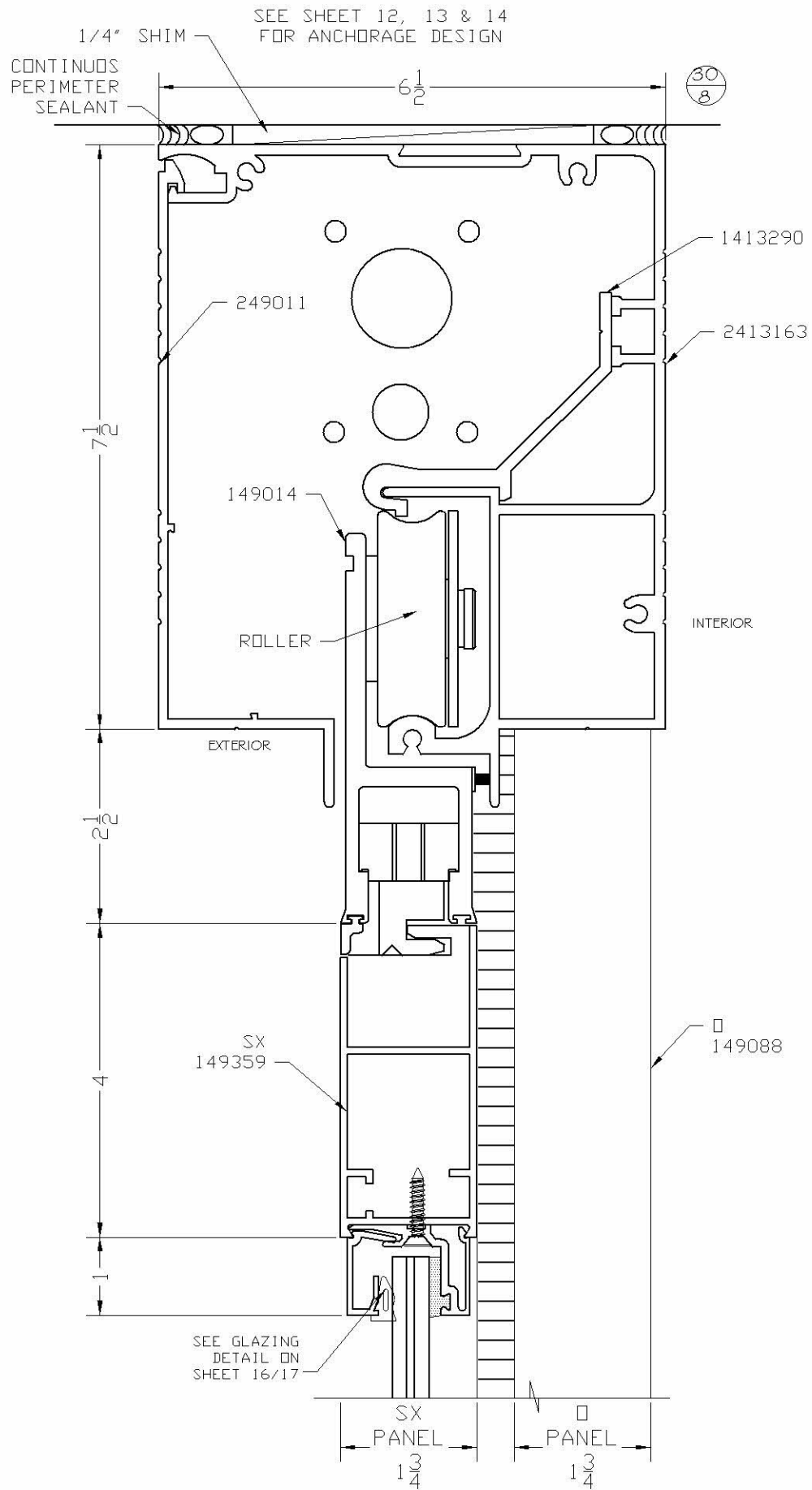
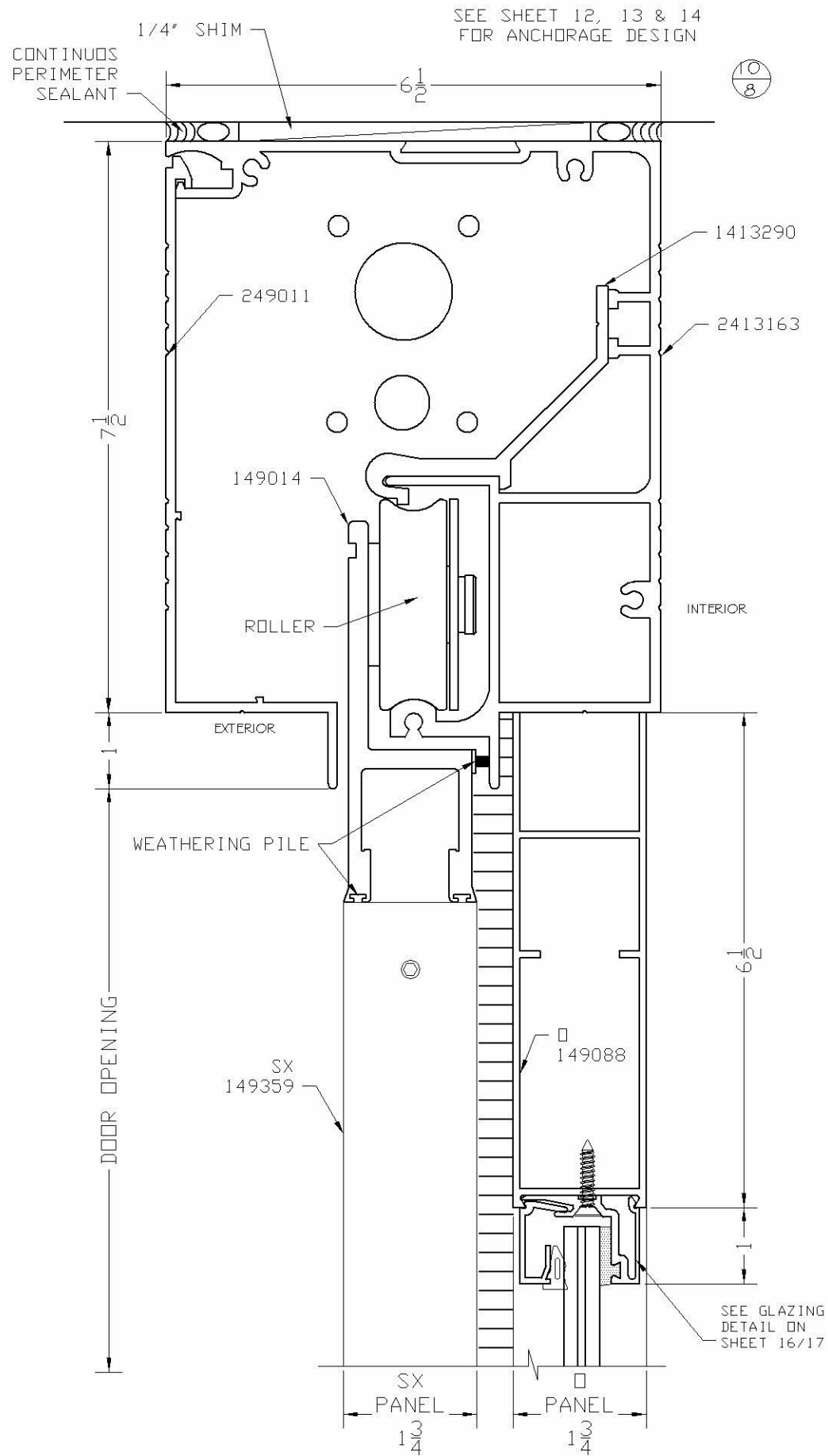
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HEADER SECTION DETAILS - 1175 FS



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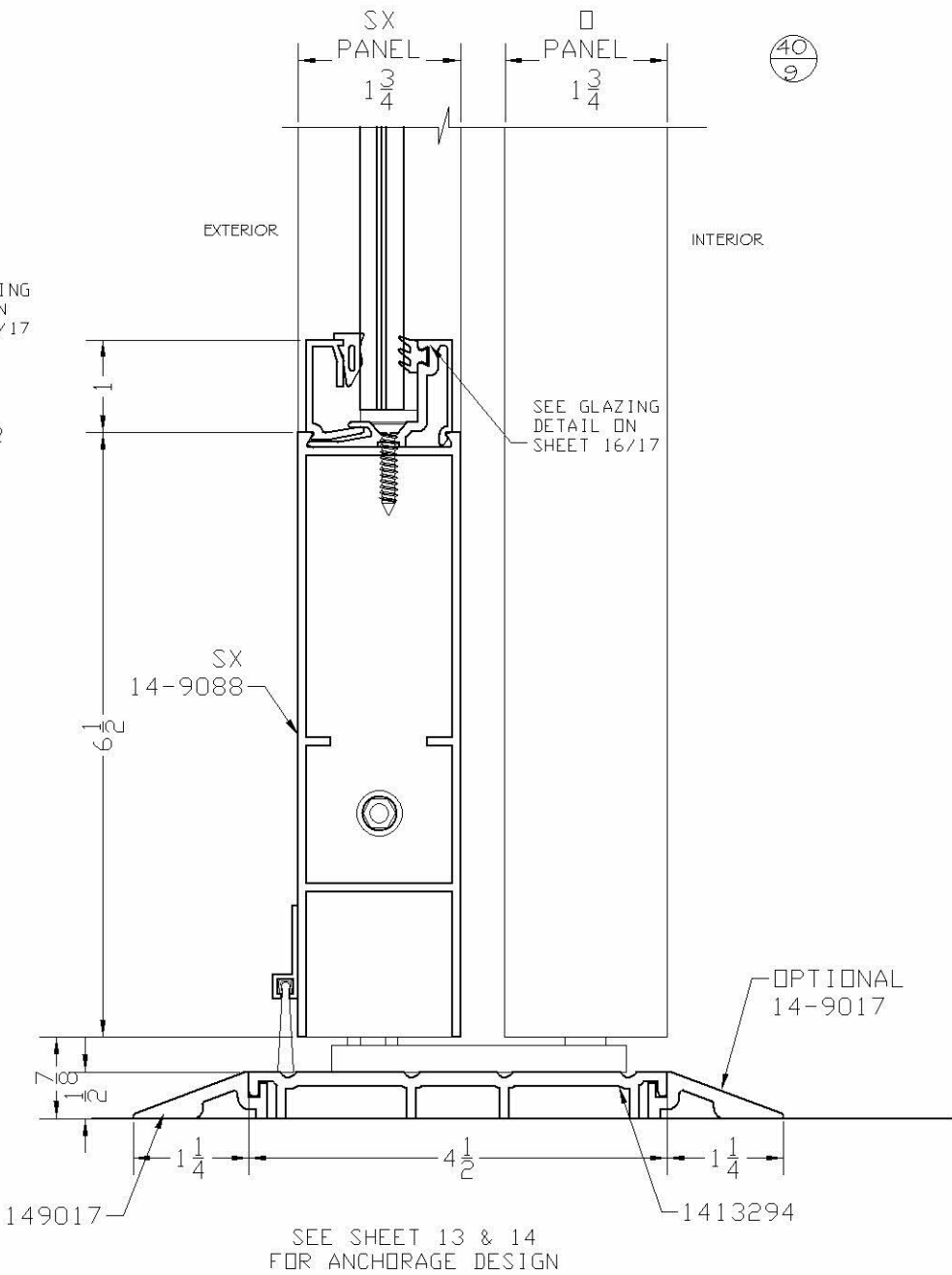
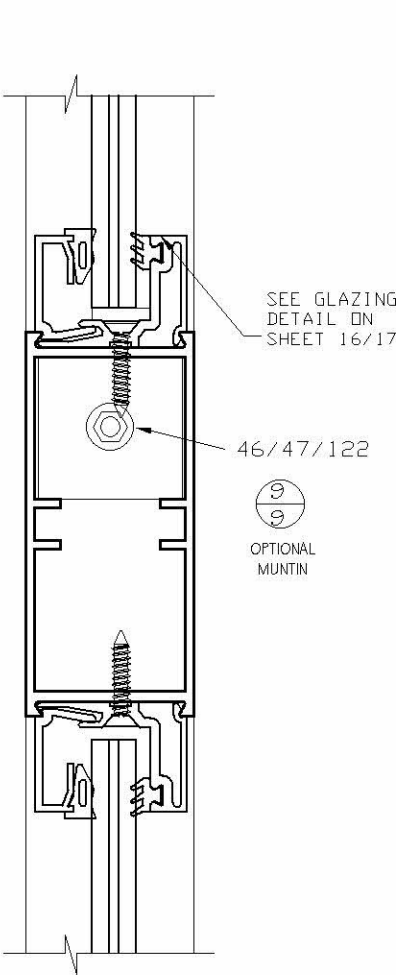
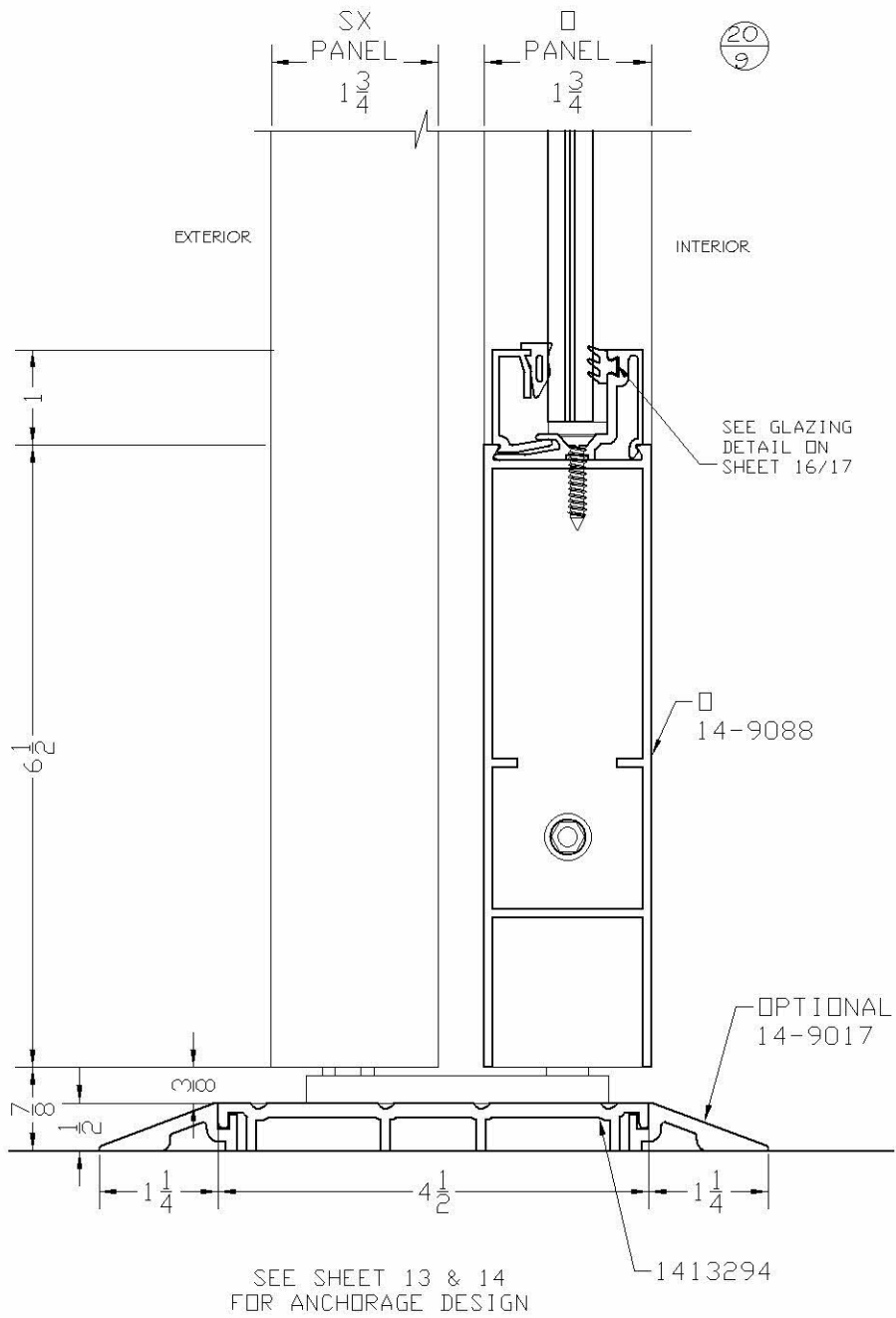
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JAMB, INTERLOCK AND MEETING SECTION DETAILS - 1175 FS



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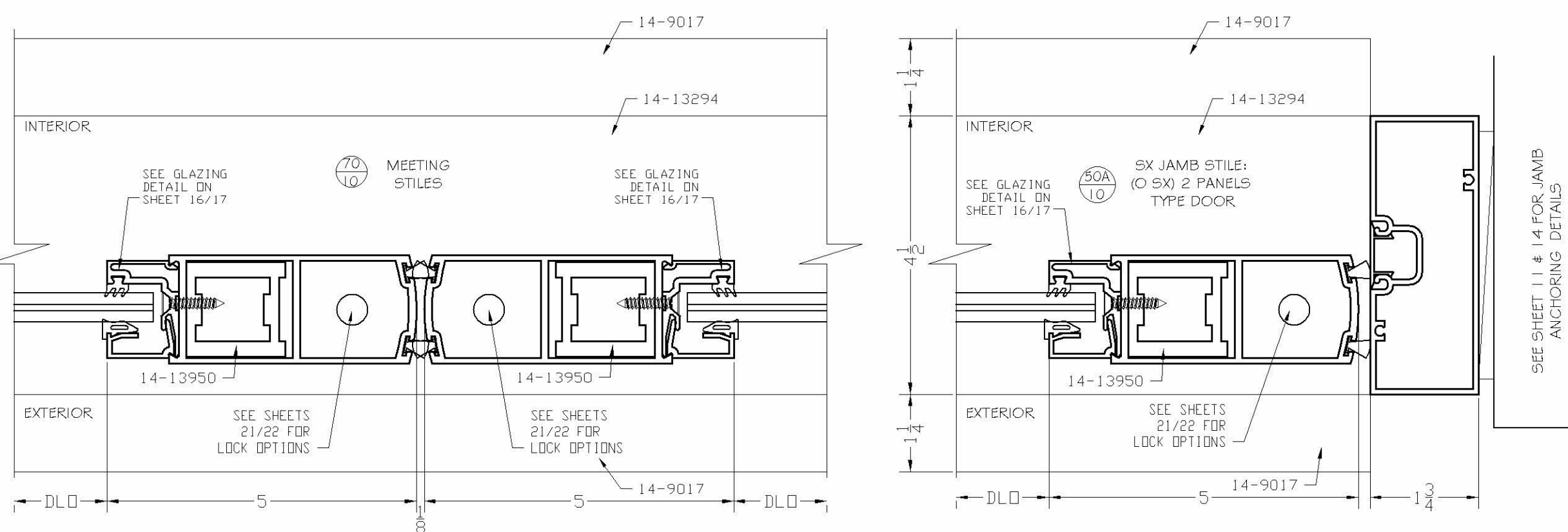
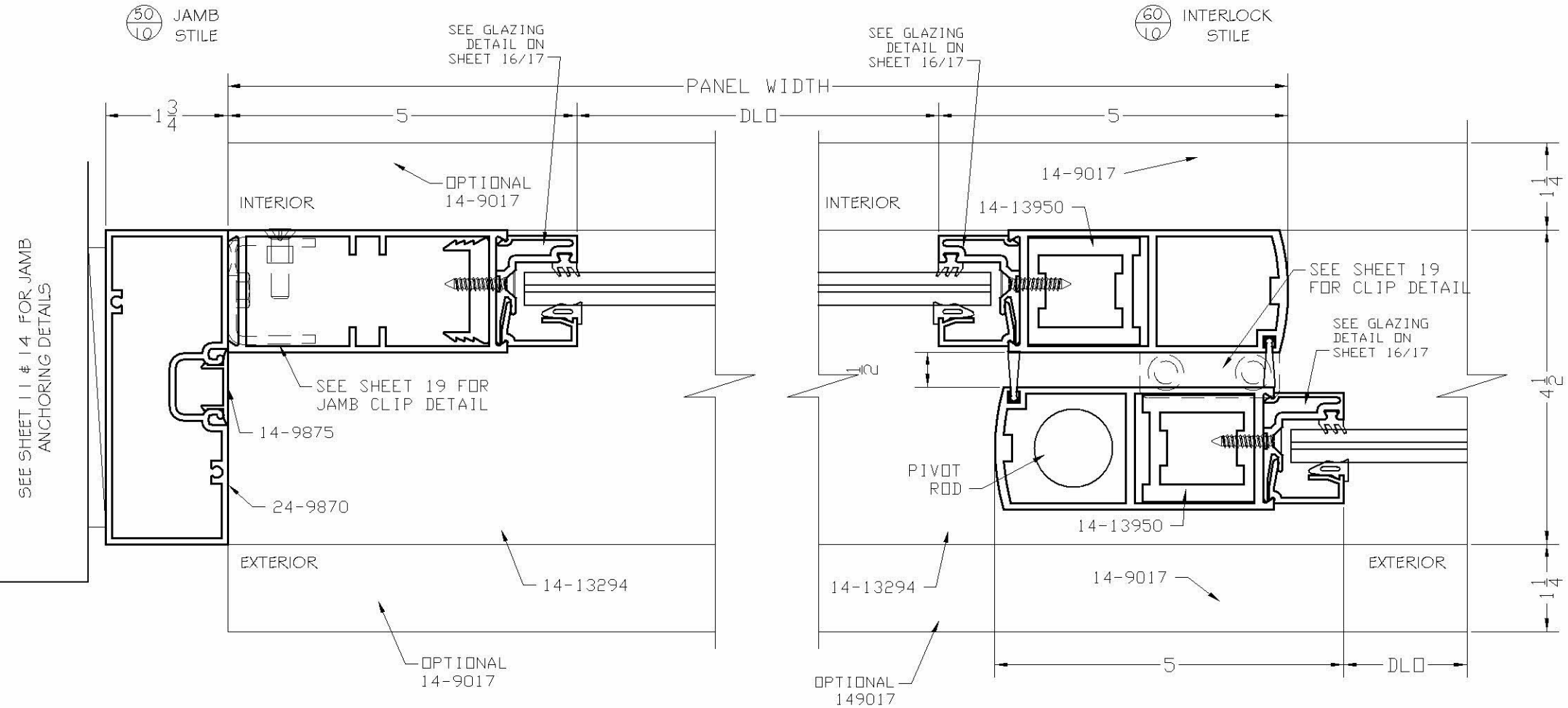
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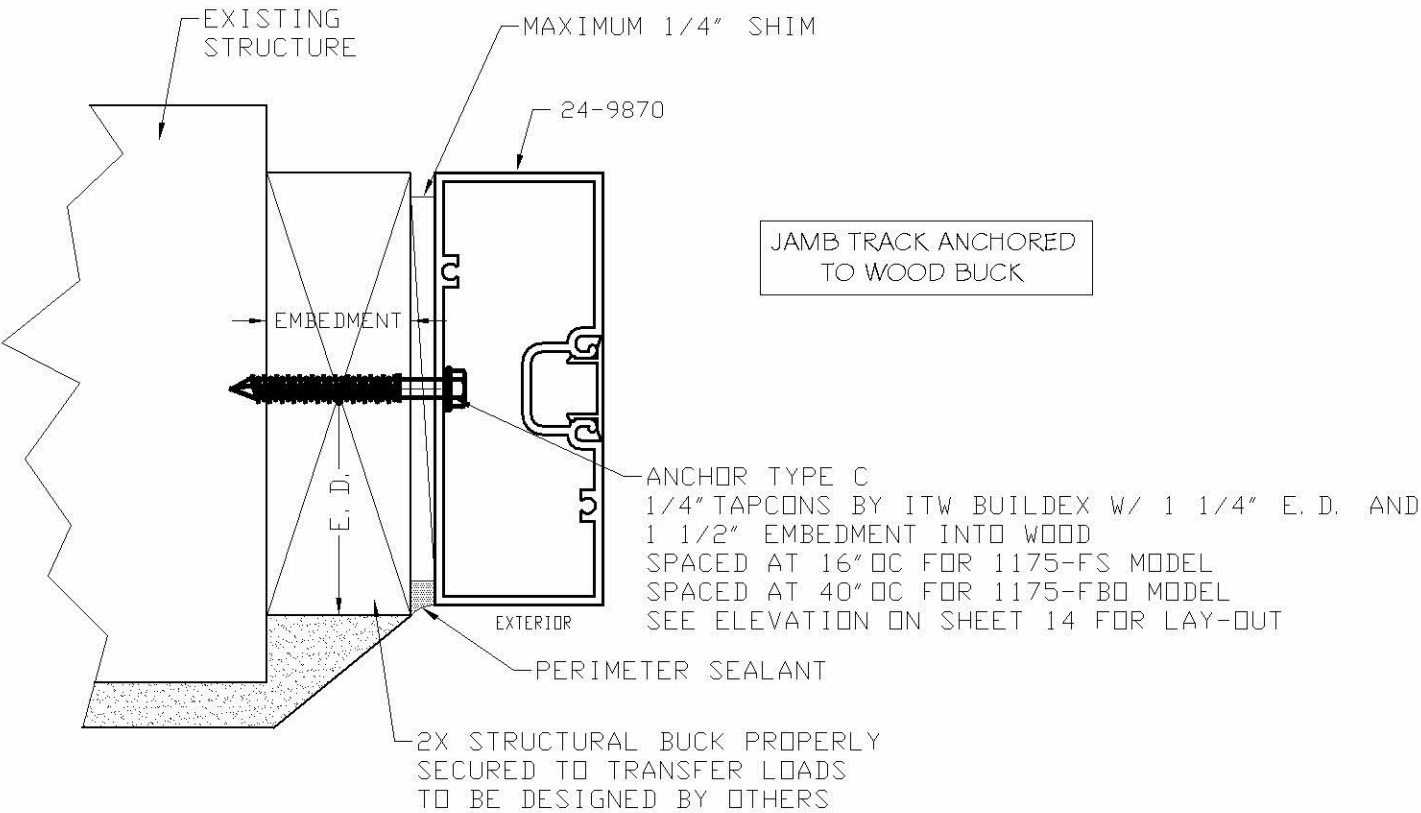
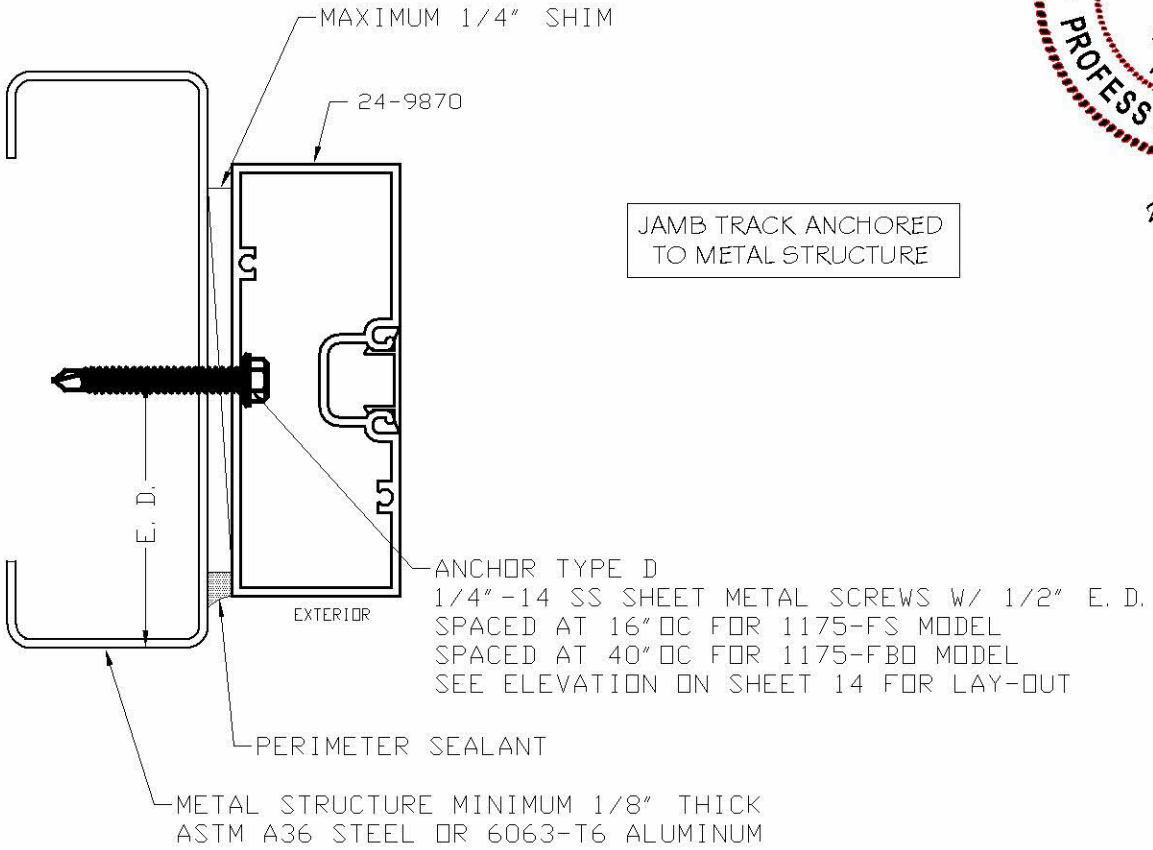
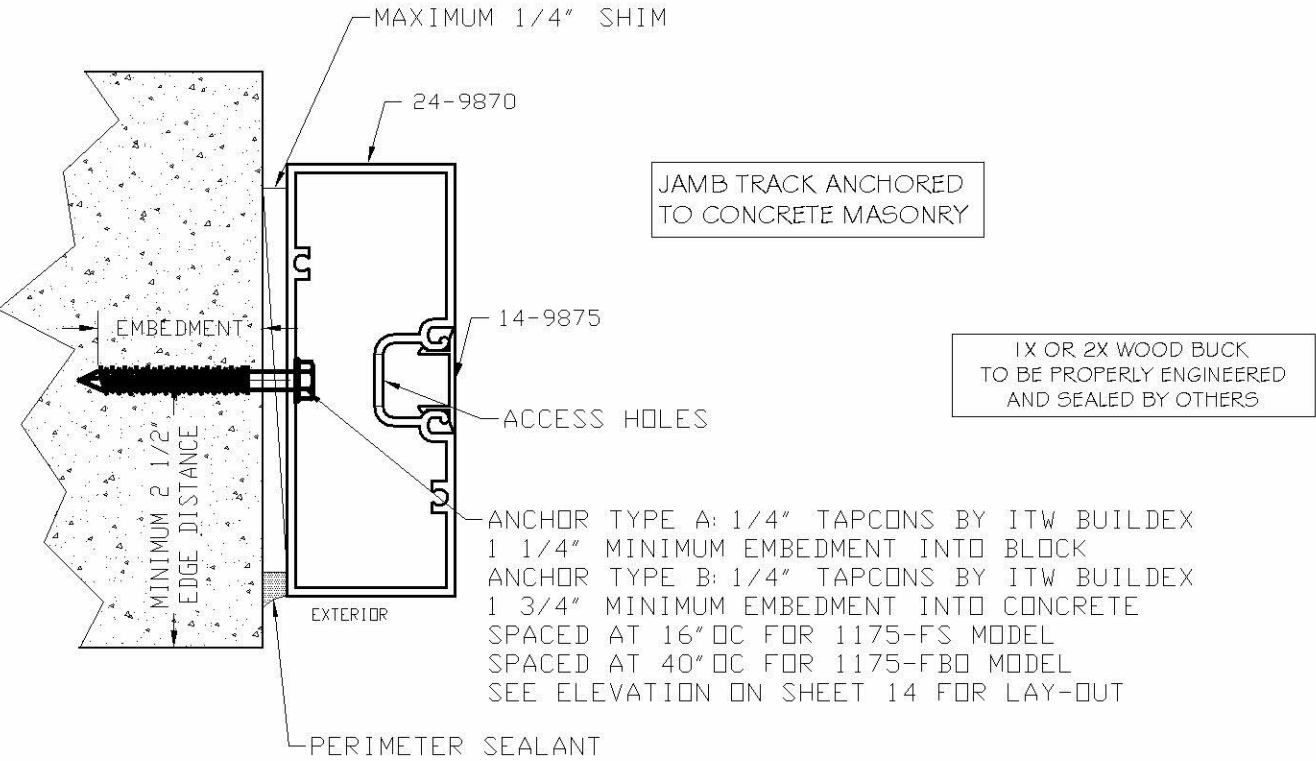
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JAMB FRAMING ANCHORAGE DETAILS



Pedro De Figueiredo
PE 52609
09/01/2021

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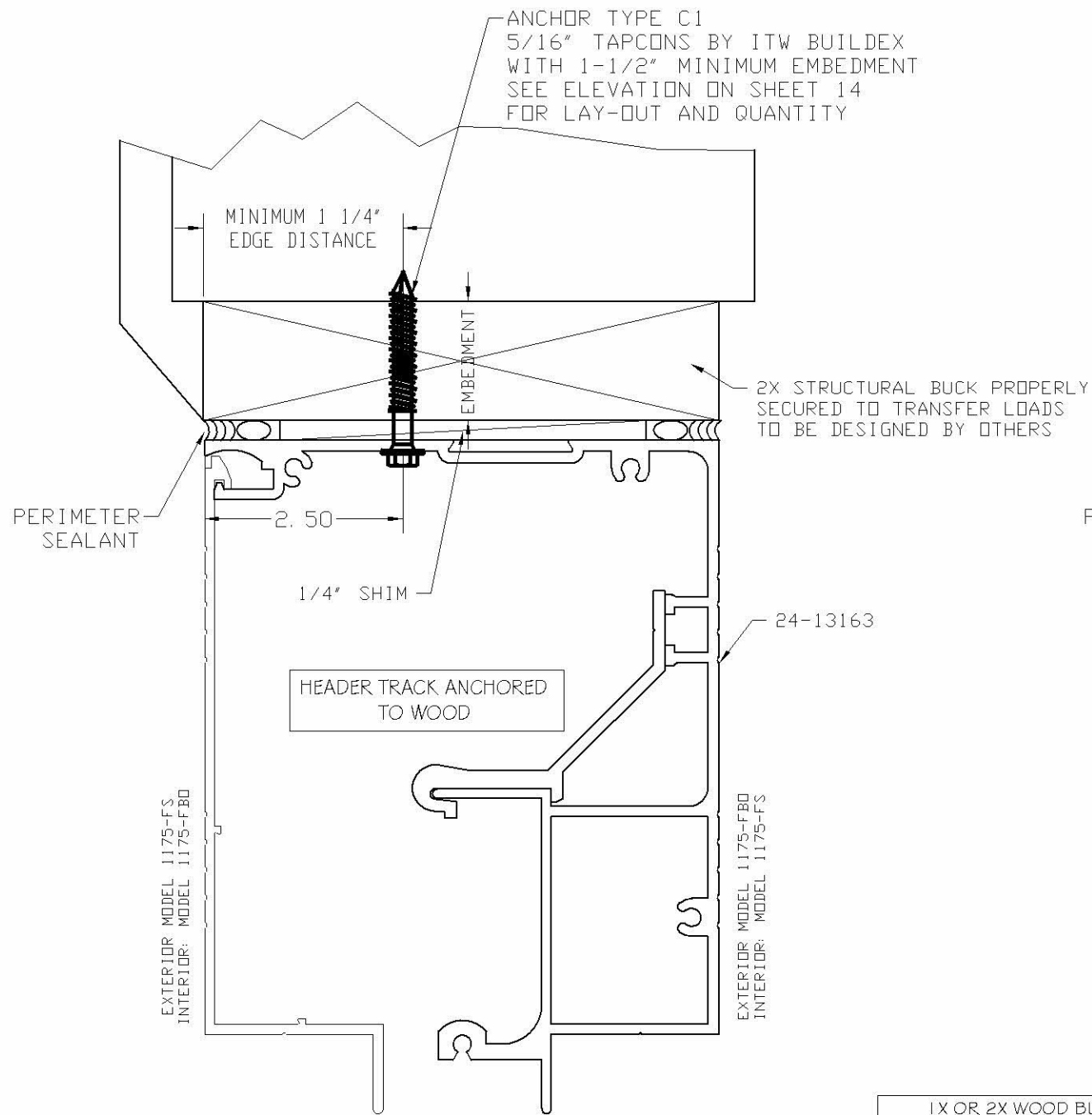
PRODUCT:
SYSTEM GTI 175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:
NABCO
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

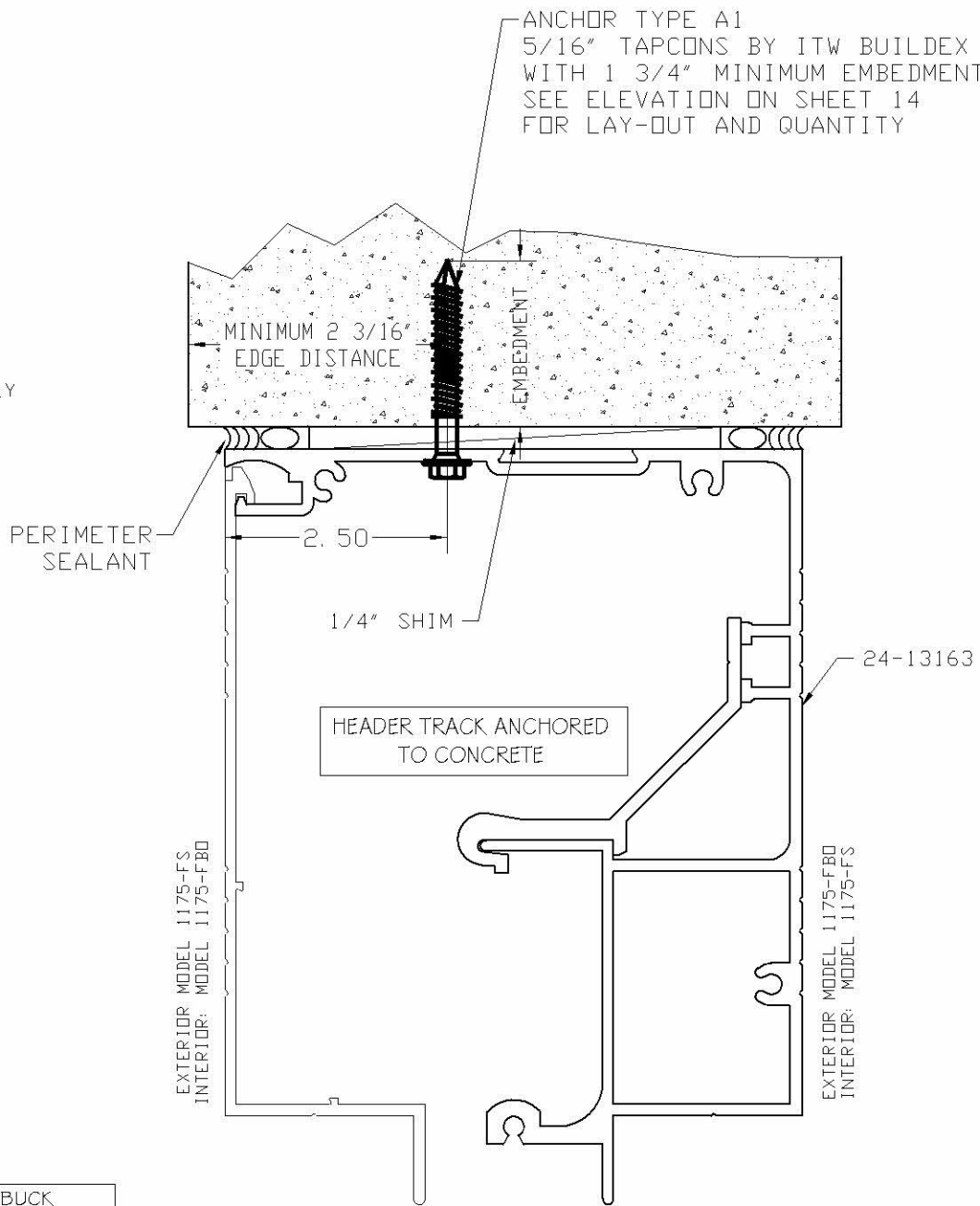
SCALE:
NA
DATE:
08/11/2021
DRAWING #
21-097
SHEET
11 OF 24

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMIF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

HEADER FRAMING ANCHORAGE DETAILS



1X OR 2X WOOD BUCK
TO BE PROPERLY ENGINEERED
AND SEALED BY OTHERS



Pedro De Figueiredo
PE 52609
09/01/2021

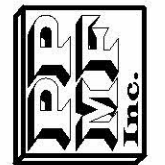
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PRODUCT:
SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED



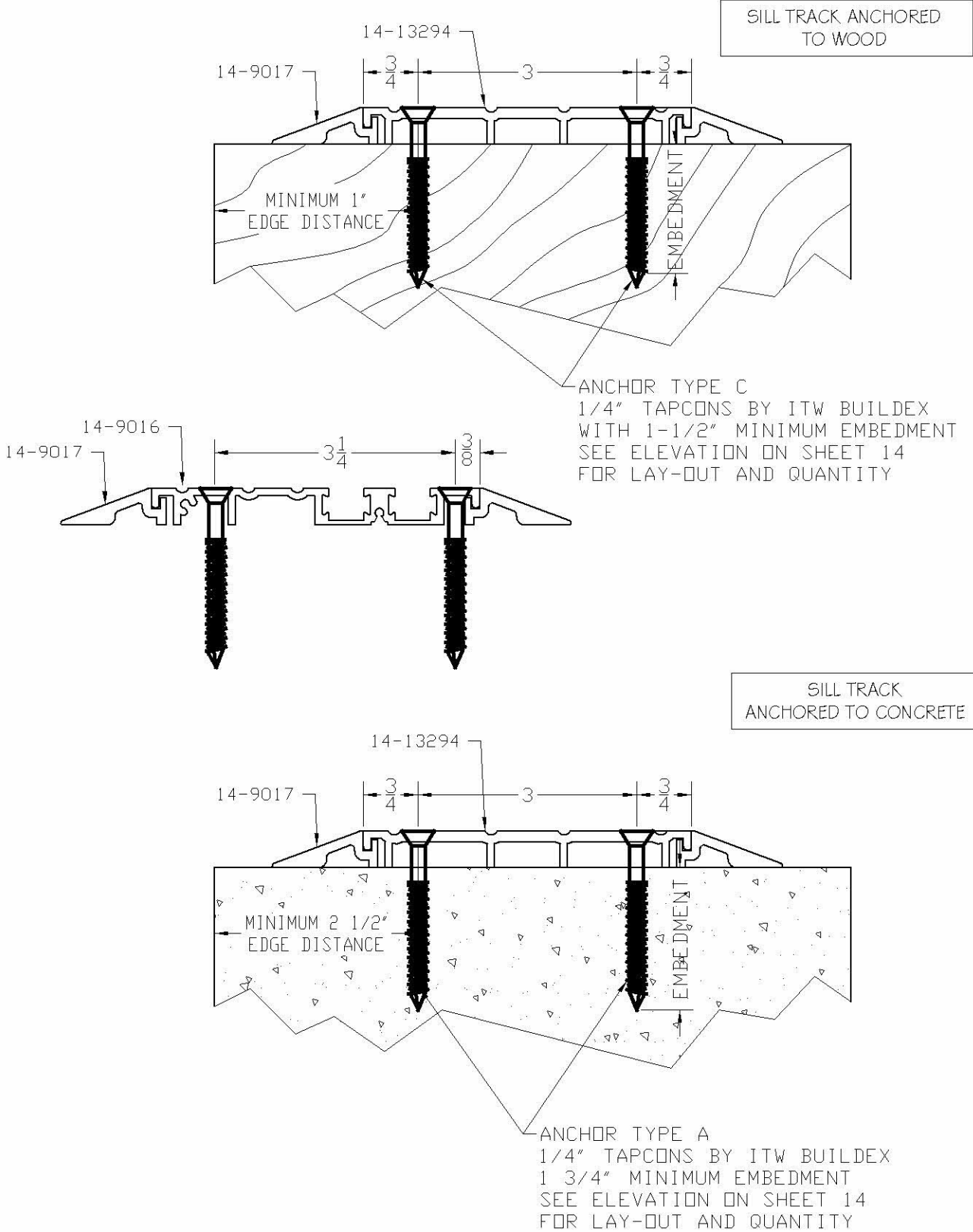
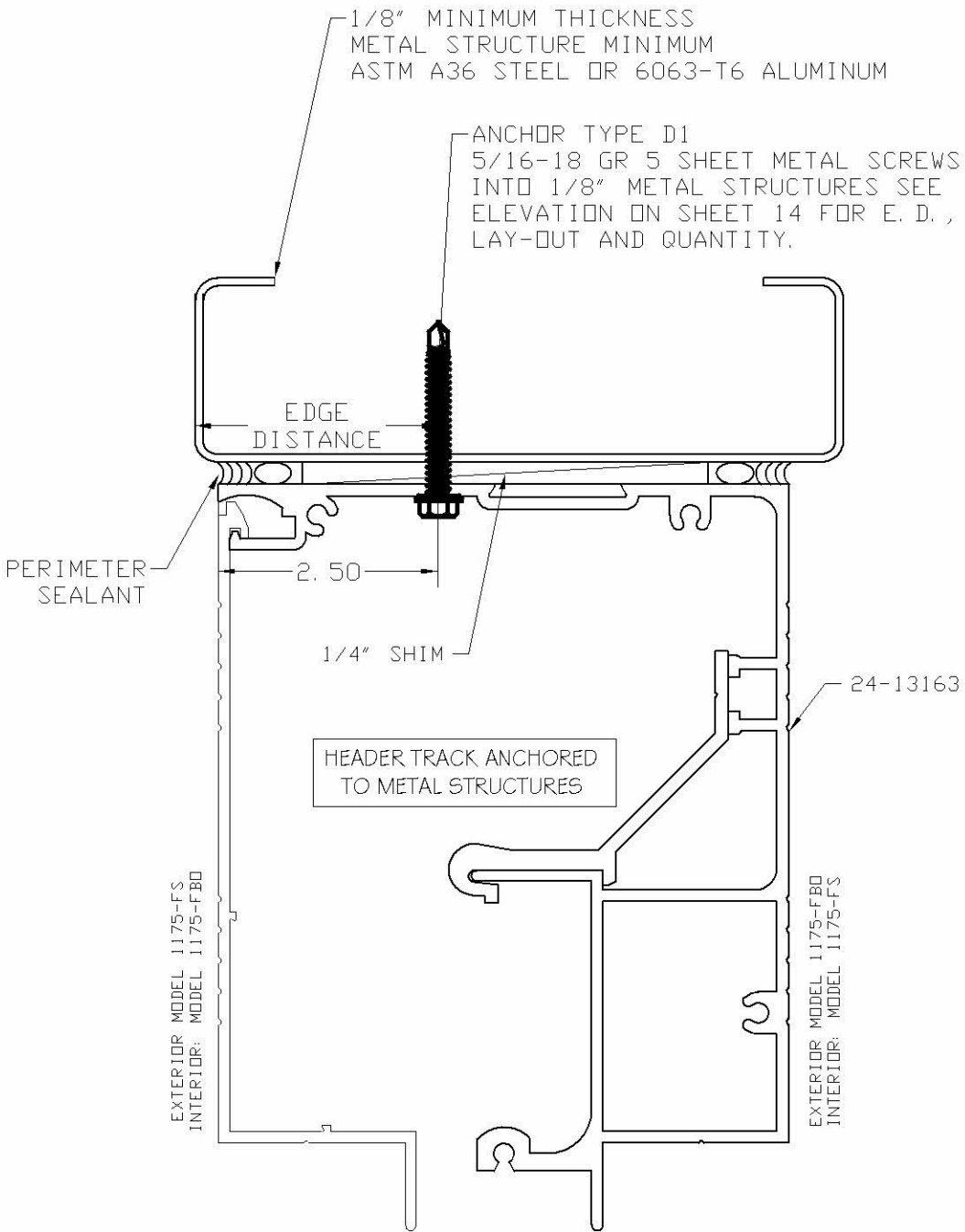
MANUFACTURER:
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

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DATE:
08/11/2021
DRAWING #
21-097
SHEET
12 OF 24



ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMIF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

HEADER & SILL FRAMING ANCHORAGE DETAILS



Pedro De Figueiredo
PE 52609
09/01/2021

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PRODUCT:
SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED



MANUFACTURER:
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
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SCALE:
NA

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08/11/2021

DRAWING #
21-097

SHEET
13 OF 24

ANCHOR TYPE AND # OF PAIR / CLUSTERS			
FH (IN)	DM (IN)	TYPE A OR C	
		3 PAIR CLUSTERS	2 PAIR CLUSTERS
92	36	105	70
	39	97	65
	42	90	60
	45	84	56
	48	79	53
	54	70	47
96	36	101	67
	39	93	62
	42	87	58
	45	81	54
	48	76	51
	52	70	47
100	36	97	65
	39	90	60
	42	83	55
	45	78	52
	48	73	48
	49	70	47
104	36	93	62
	39	86	57
	42	80	53
	45	75	50
	48	70	47

		ANCHOR TYPE AND # OF SINGLE ROW/CLUSTERS												
FH IN	DM IN	A1				C1				D1				TYPE CLUSTERS
		10	8	6	4	10	8	6	4	10	8	6	4	
92	36	105	105	79	53	105	96	72	48	105	90	68	45	
	39	97	97	73	49	97	89	67	44	97	83	63	42	
	42	90	90	68	45	90	82	62	41	90	77	58	39	
	45	84	84	63	42	84	77	58	38	84	72	54	36	
	48	79	79	59	40	79	72	54	36	79	68	51	34	
96	54	70	70	53	35	70	64	48	32	70	60	45	30	
	36	101	101	76	51	101	92	69	46	101	87	65	43	
	39	93	93	70	47	93	85	64	42	93	80	60	40	
	42	87	87	65	43	87	79	59	39	87	74	56	37	
	45	81	81	61	41	81	74	55	37	81	69	52	35	
100	48	76	76	57	38	76	69	52	35	76	65	49	32	
	52	70	70	53	35	70	64	48	32	70	60	45	30	
	36	97	97	73	49	97	88	66	44	97	83	62	42	
	39	90	90	67	45	90	82	61	41	90	77	58	38	
	42	83	83	63	42	83	76	57	38	83	71	53	36	
104	45	78	78	58	39	78	71	53	35	78	67	50	33	
	48	73	73	55	36	73	66	50	33	73	62	47	31	
	49	70	70	53	35	70	64	48	32	70	60	45	30	
	36	93	93	70	47	93	85	64	42	93	80	60	40	
	39	86	86	65	43	86	78	59	39	86	74	55	37	
104	42	80	80	60	40	80	73	55	36	80	69	51	34	
	45	75	75	56	37	75	68	51	34	75	64	48	32	
	48	70	70	53	35	70	64	48	32	70	60	45	30	

ANCHOR TYPES:		MINIMUM EDGE DISTANCE
A- 1/4" TAPCON BY ITW WITH 1 3/4" MIN. EMBEDMENT INTO 3000 PSI CONCRETE		2 1/2"
A1- 5/16" TAPCON BY ITW WITH 1 3/4" MIN. EMBEDMENT INTO 3000 PSI CONCRETE		2 3/16"
B- 1/4" TAPCON BY ITW WITH 1 1/4" MIN. EMBEDMENT INTO HOLLOW BLOCK		2 1/2"
C- 1/4" TAPCON BY ITW WITH 1 1/2" MIN. EMBEDMENT INTO PT WOOD (SG=0.55)		1"
C1- 5/16" TAPCON (Fy=115 KSI) BY ITW WITH 1 1/2" MIN. EMBEDMENT INTO PT WOOD (SG=0.55)		1 1/4"
D- 1/4-14 GR 5 SHEET METAL SCREWS INTO 1/8" METAL STRUCTURES		1/2"
D1- 5/16-18 GR 5 SHEET METAL SCREWS INTO 1/8" METAL STRUCTURES		1"

NOTES:	
1- MINIMUM EMBEDMENT ARE BEYOND WALL DRESSING	2- TAPCONS WITH FLAT, HEX AND/OR PAN HEADS CAN BE USED
3- METAL STRUCTURES ARE ASTM A36 STEEL OR 6063-T6 ALUMINUM	4- ANCHOR TYPE D MUST HAVE A MINIMUM 3 THREADS EMBEDMENT
5 - HEADER & JAMB ANCHORS ARE INSTALLED INTO A SINGLE ROW	6- SILL ANCHORS ARE DISTRIBUTED INTO TWO IN LINE ROWS



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AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:

NAECO

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SCALE:
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08/11/2021

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21-097

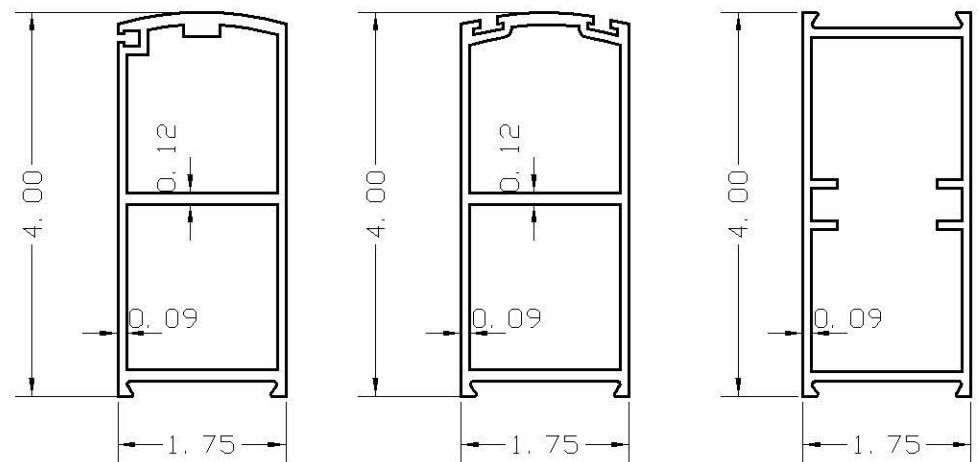
SHEET
14 OF 24

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMF@AOL.COM ENGINEER
PEDRO DE FLORIAN PE 520



ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

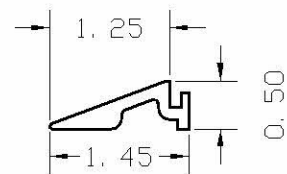
DOOR COMPONENTS



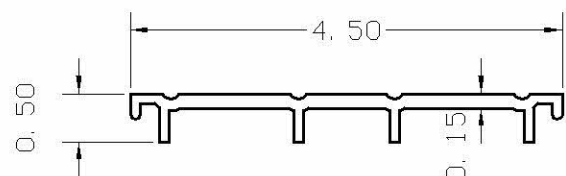
14-13288
4" PIVOT STILE
ALLOY: 6063-T5

14-13289
4" STILE
ALLOY: 6063-T5

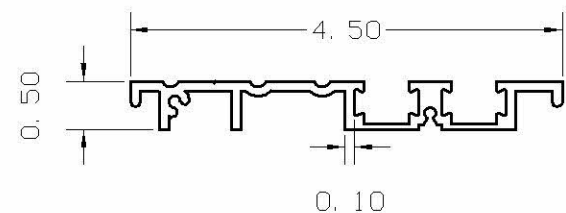
24-0328
4" FIXED VERTICAL
STILE AND MUNTIN
ALLOY: 6063-T5



14-9017
THRESHOLD RAMP
ALLOY: 6063-T5



14-13294 - THRESHOLD
GT1175 - FS & FBO THRESHOLD
ALLOY: 6063-T5

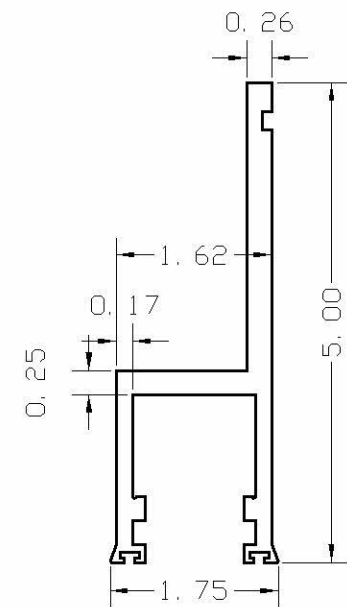


14-9016 - THRESHOLD
GT1175 - FBO
ALLOY: 6063-T5

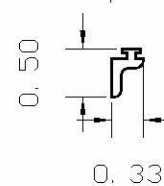
THRESHOLD 14-13294 INSTALLED FROM JAMB TO JAMB
ON GT1175-FS (O SX-SX O AND O SX) APPLICATIONS

THRESHOLD 14-13294 INSTALLED ONLY IN THE DOOR OPENING (SX)
ON GT1175-FBO (SO SX-SX SO AND SO SX) APPLICATIONS

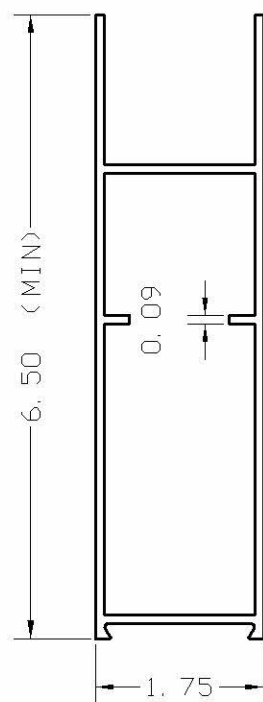
THRESHOLD 14-9016 INSTALLED ONLY UNDER THE DOOR FIXED PANELS (SO)
ON GT1175-FBO (SO SX-SX SO AND SO SX) APPLICATIONS



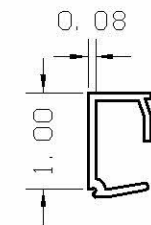
14-9014
DOOR CARRIER
ALLOY: 6063-T5



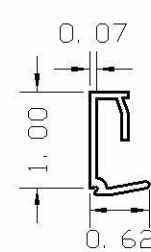
14-9015
INTERFACE LEG
ALLOY: 6063-T5



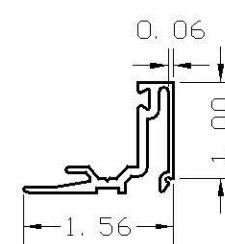
14-9088
SIDELITE TOP & BOTTOM RAIL
DOOR BOTTOM RAIL
ALLOY: 6063-T5



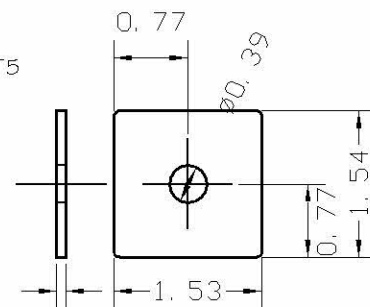
M-X0336
NON IMPACT
GLASS STOP
ALLOY: 6063-T5



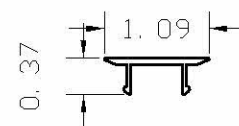
M-X0334
LEVEL D
GLASS STOP
ALLOY: 6063-T5



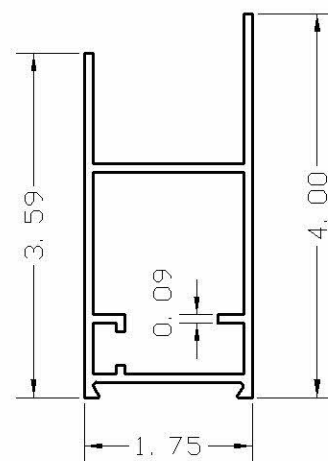
M-X0332
NON IMPACT & LEVEL D
GLASS STOP BASE
ALLOY 6063-T5



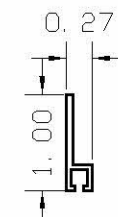
14-9225
TIE ROD BACK-UP PLATE
ANSI 1018 STEEL



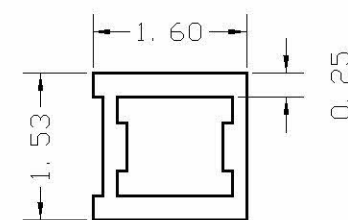
14-9875
POCKET FILLER
ALLOY: 6063-T5



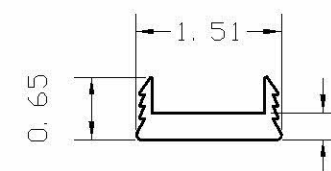
14-9359
DOOR TOP RAIL
ALLOY: 6063-T5



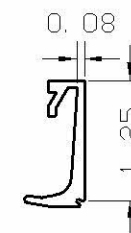
14-5636
BRUSH HOLDER
ALLOY 6063-T5



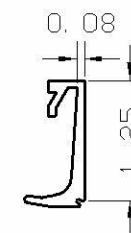
14-13950
ALUMINUM STIFFENER
ALLOY 6063-T5



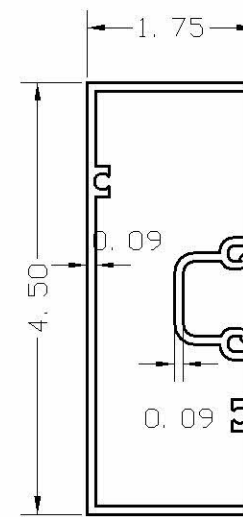
24-2967
RAIL CLIP
ALLOY 6063-T5



M-X2128
LEVEL E
GLASS STOP BASE
ALLOY 6063-T5



M-X2127
LEVEL E
GLASS STOP
ALLOY: 6063-T5



24-9870 - JAMB
ALLOY 6063-T5



Pedro De Figueiredo
PE 52609
09/01/2021

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PRODUCT:

SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:

NABCO
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

SCALE:
NA

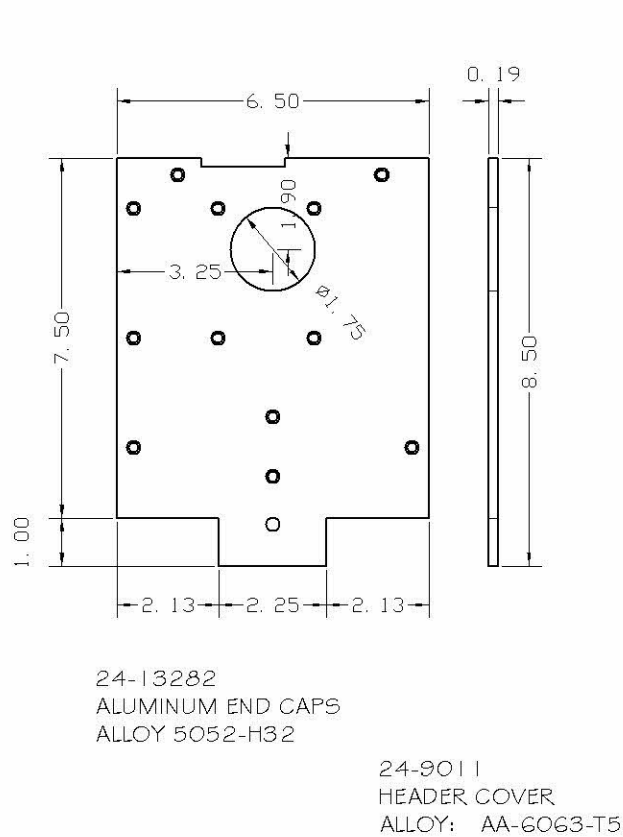
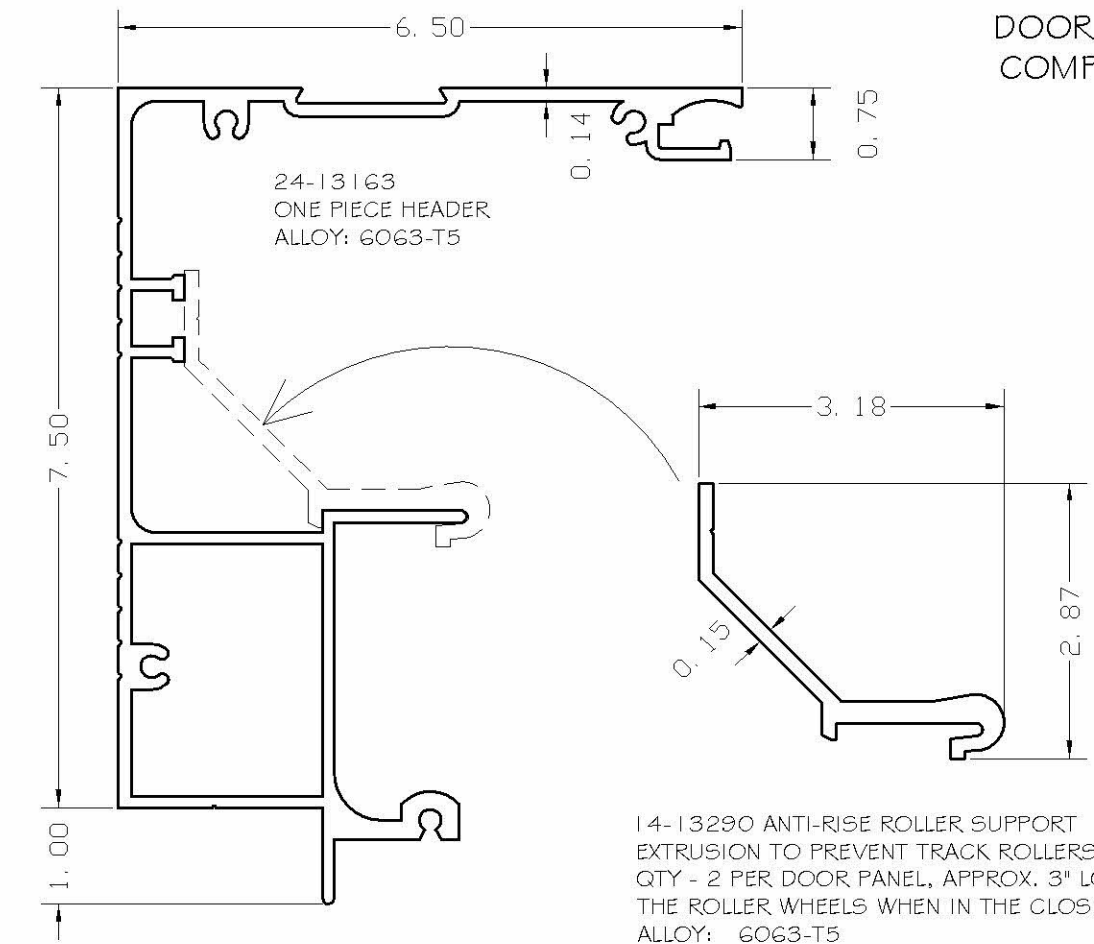
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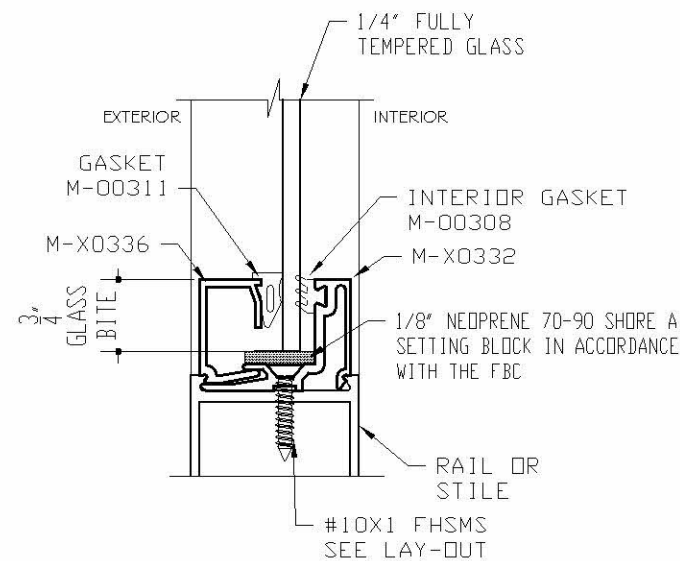
SHEET
15 OF 24



ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
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ENGINEER SEAL
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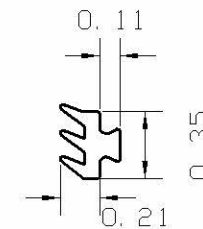


NON IMPACT DRY GLAZING GLAZING DETAIL APPLICABLE FOR FBO & FS OPTIONS



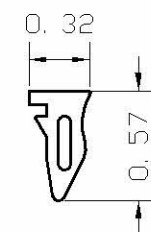
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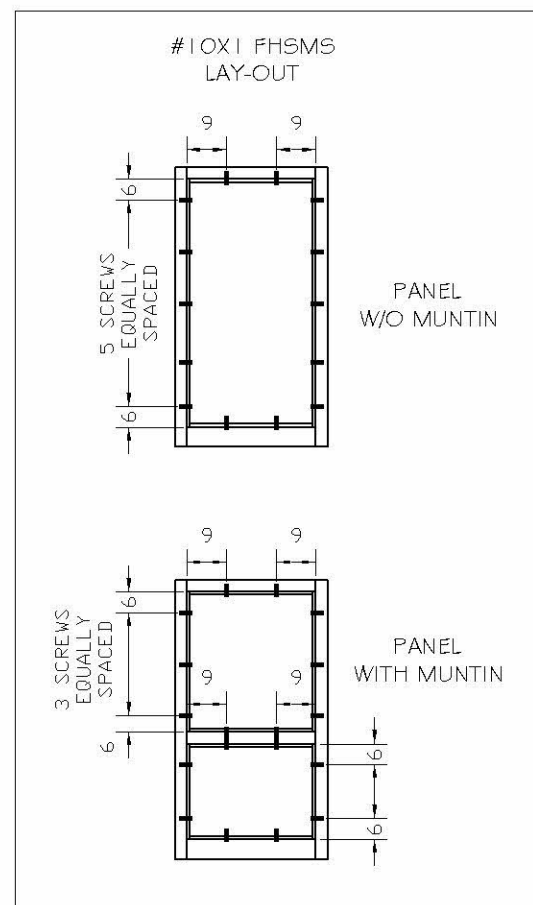
M-00308
INTERIOR GASKET W/ DOVETAIL .150 FC
W/ SILICONE EMULSION

EPDM GLAZING
MANUFACTURER: TRELLEBORG
HARDNESS: 70 SHORE A
TENSILE STRENGTH: 1410 PSI
TEAR STRENGTH: 126 lbf/in
ELONGATION (BREAK) 266%



M-00311 GASKET
EXTERIOR GASKET WEDGE .188 FC
THERMOPLASTIC ELASTOMER

THERMOPLASTIC ELASTOMER GLAZING (W514)
MANUFACTURER: REED RUBBER PRODUCTS
HARDNESS: 66 SHORE A
TENSILE STRENGTH: 798 PSI
TEAR STRENGTH: 166 lbf/in
ELONGATION (BREAK): 320%
SPECIFIC GRAVITY: .97



PRODUCT:

SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:

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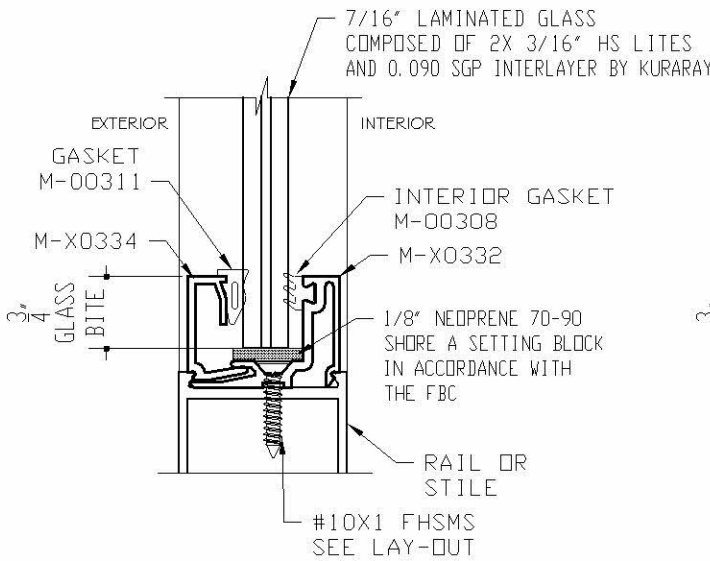
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SHEET
16 OF 24

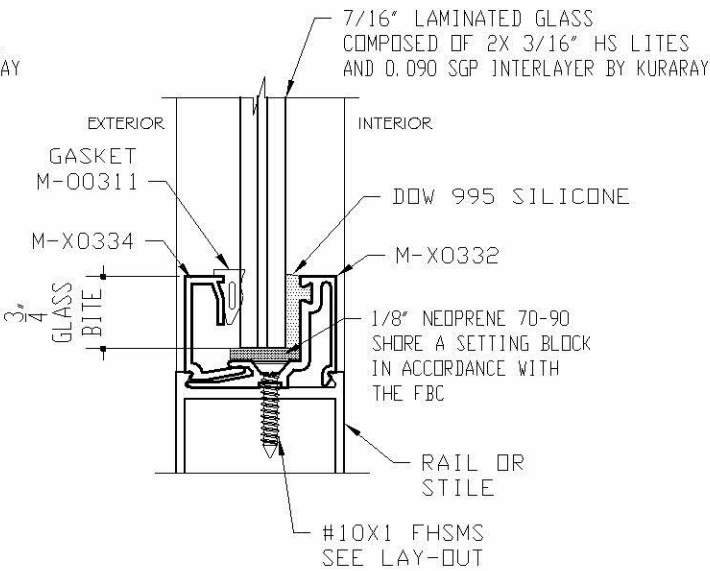
LARGE (LEVEL D) & SMALL MISSILE

WET & DRY GLAZING DETAILS
APPLICABLE FOR FBS AND FS OPTIONS

DRY GLAZING DETAIL

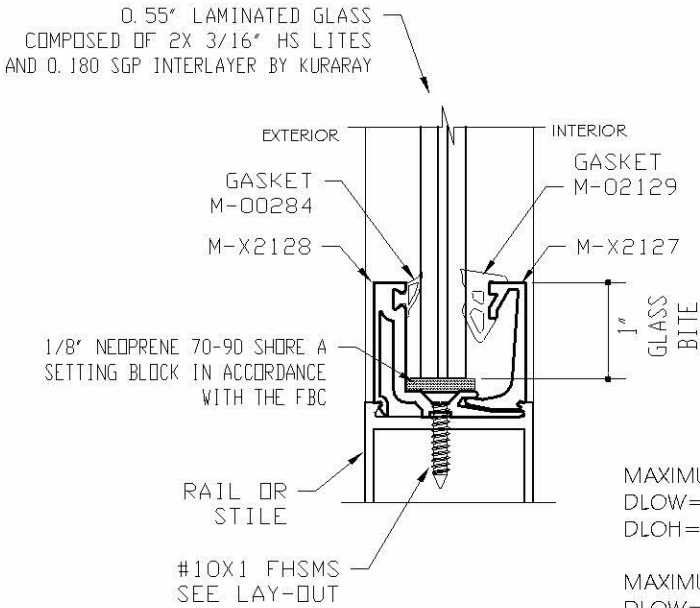


WET GLAZING DETAIL



LEVEL E

DRY GLAZING DETAIL
APPLICABLE ONLY FOR FBO OPTION



MAXIMUM DLO SO PANEL:
DLOW= DM-11 5/16"
DLOH= FH-24"

MAXIMUM DLO SX PANEL:
DLOW= DM-7 1/2"
DLOH= FH-23 7/8"



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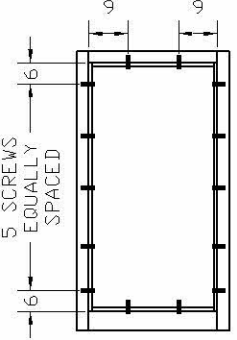
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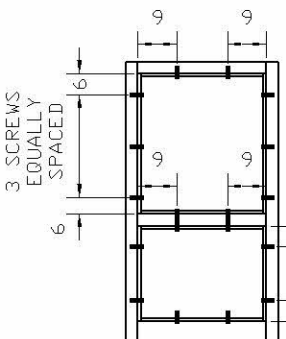
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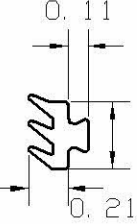
#10X1 FHSMs LAY-OUT



PANEL
W/O MUNTIN

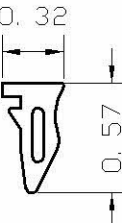


PANEL
WITH MUNTIN



M-00308
INTERIOR GASKET
W/ DOVETAIL .150 FC
W/ SILICONE EMULSION

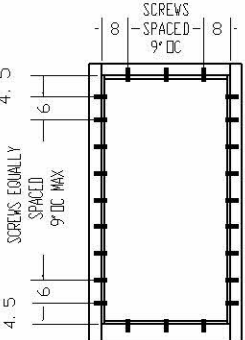
EPDM GLAZING
MANUFACTURER: TRELLEBORG
HARDNESS: 70 SHORE A
TENSILE STRENGTH: 1410 PSI
TEAR STRENGTH: 126 lbf/in
ELONGATION (BREAK) 266%



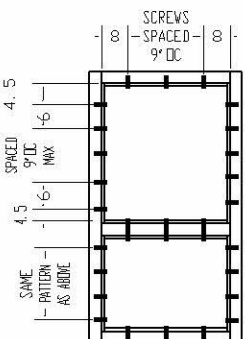
M-00311 GASKET
EXTERIOR GASKET WEDGE .188 FC
THERMOPLASTIC ELASTOMER

THERMOPLASTIC ELASTOMER GLAZING (W514)
MANUFACTURER: REED RUBBER PRODUCTS
HARDNESS: 66 SHORE A
TENSILE STRENGTH: 798 PSI
TEAR STRENGTH: 166 lbf/in
ELONGATION (BREAK): 320%
SPECIFIC GRAVITY: .97

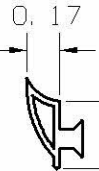
#10X1 FHSMs LAY-OUT



PANEL
W/O MUNTIN



PANEL
WITH MUNTIN



M-00284 GASKET
EXTERIOR GASKET
W/ DOVE TAIL .09 FC

EPDM GLAZING
MANUFACTURER: TRELLEBORG
HARDNESS: 66 SHORE A
TENSILE STRENGTH: 1350 PSI
TEAR STRENGTH: 145 lbf/in
ELONGATION (BREAK): 350%

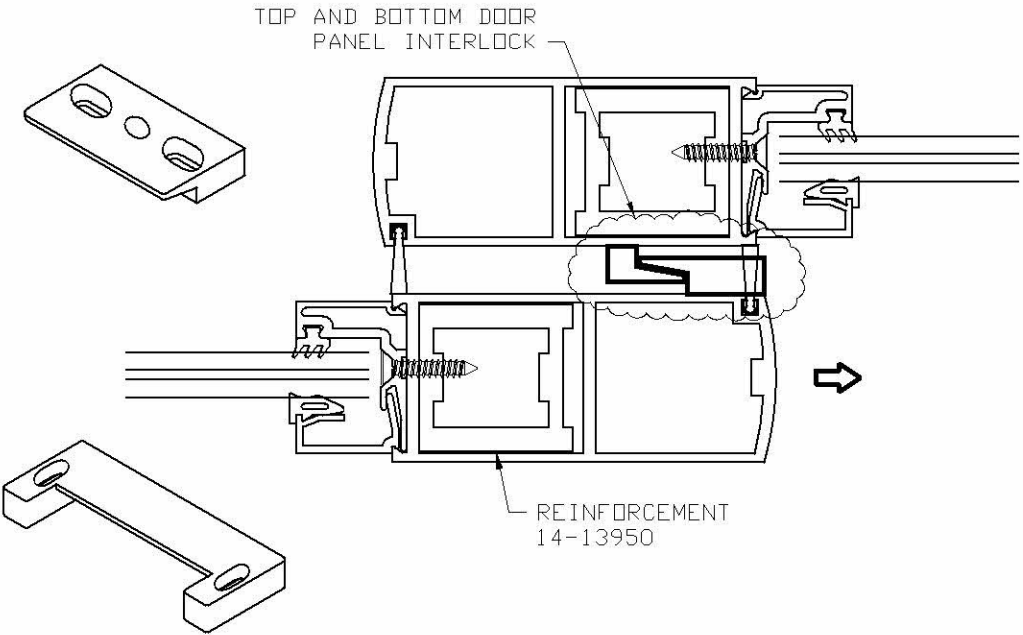


M-02129 GASKET
INTERIOR GASKET WEDGE .250 FC
EPDM 70A

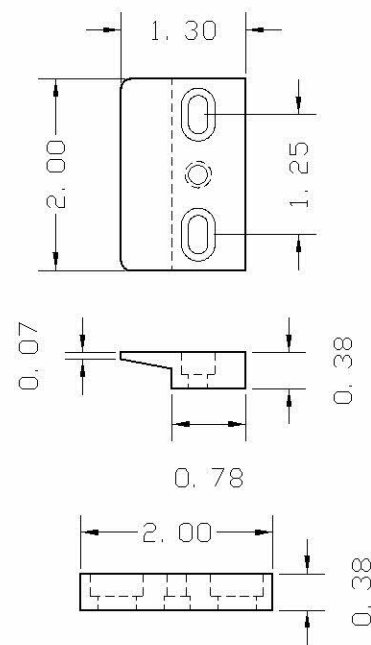
EPDM GLAZING
MANUFACTURER: TRELLEBORG
HARDNESS: 70 SHORE A
TENSILE STRENGTH: 1410 PSI
TEAR STRENGTH: 126 lbf/in
ELONGATION (BREAK): 266%

CONSTRUCTION DETAILS
SYSTEM GT 1175 SERIES - FBO MODEL

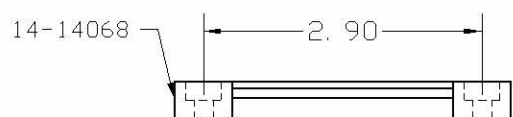
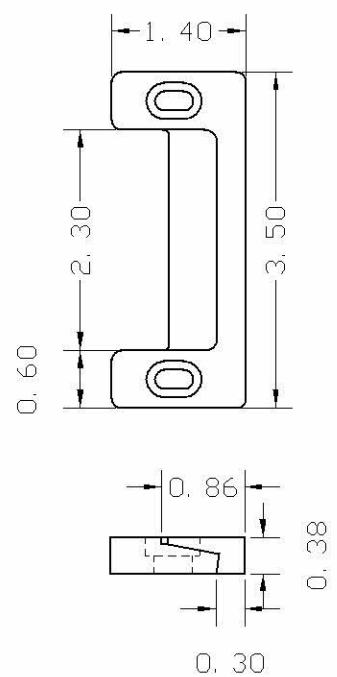
DOOR PANEL INTERLOCK
APPLICABLE FOR 1175- FBO ONLY



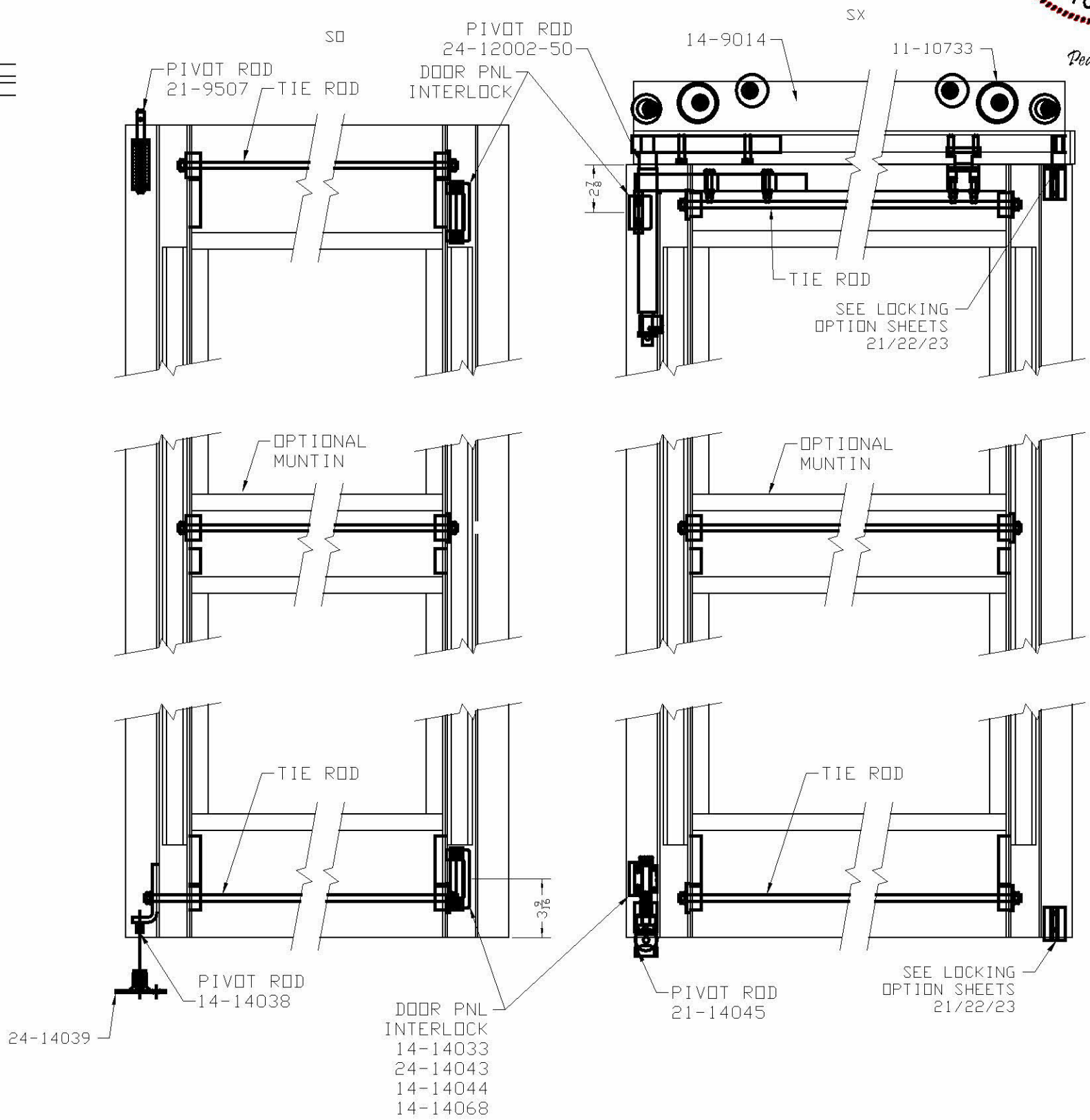
DOOR PANEL INTERLOCK (MALE)
14-14044



DOOR PANEL INTERLOCK (FEMALE)
24-14043



FBO
PANEL CORNER CONTRUCTION DETAILS



Pedro De Figueiredo
PE 52609
09/01/2021

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PE 52609

PPMIF Inc.

PRODUCT:
SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:
NABCO
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

SCALE:
NA

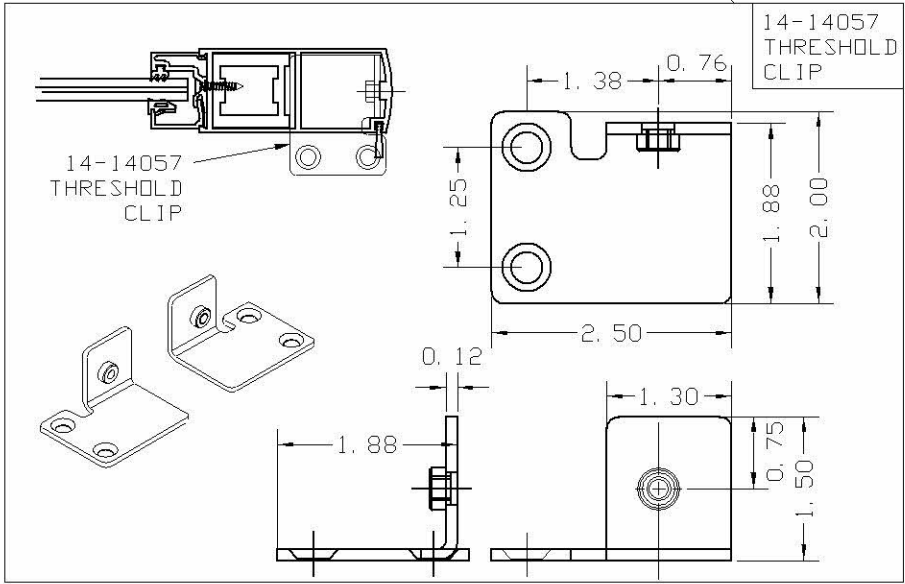
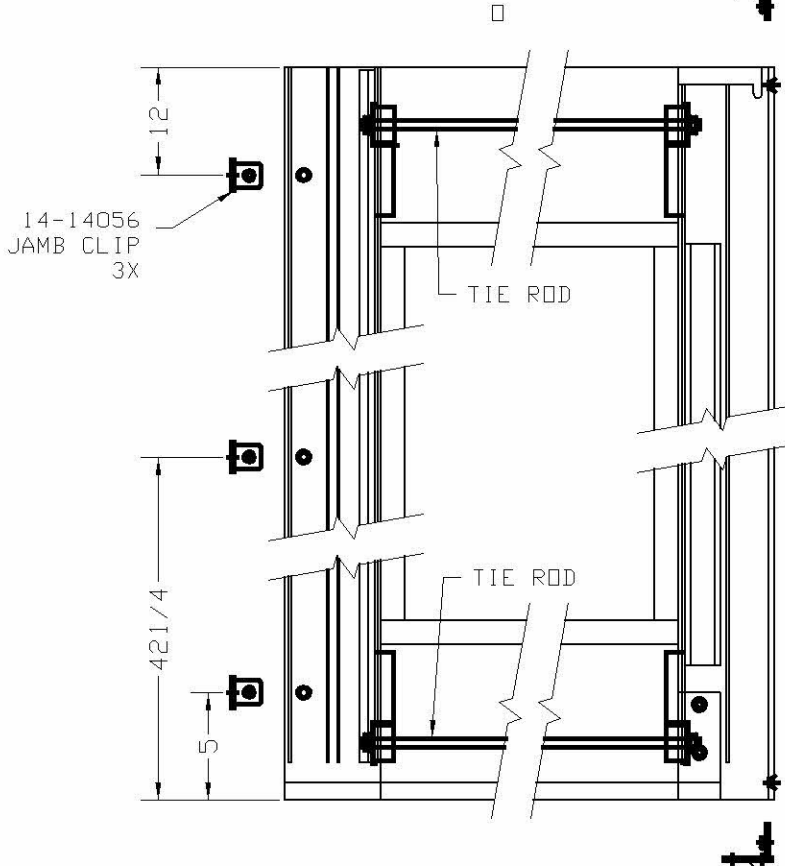
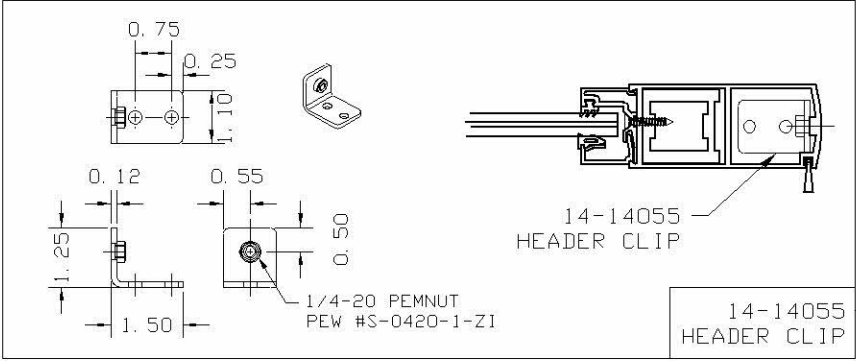
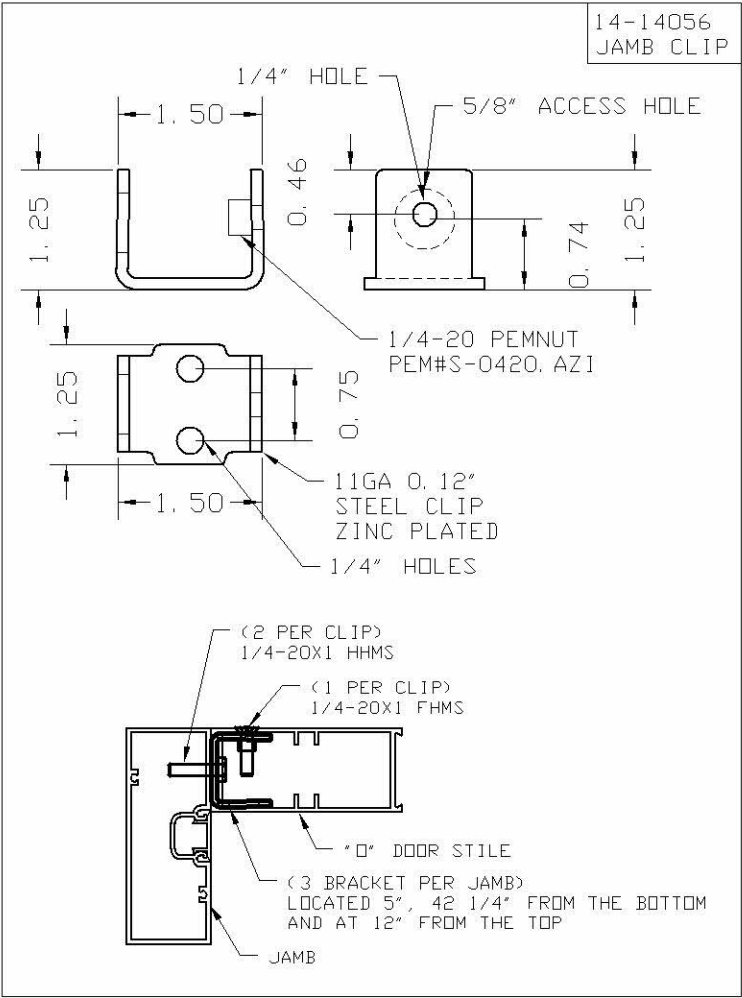
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08/11/2021

DRAWING #
21-097

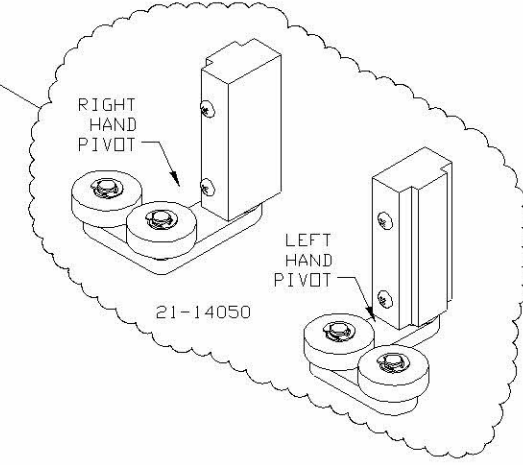
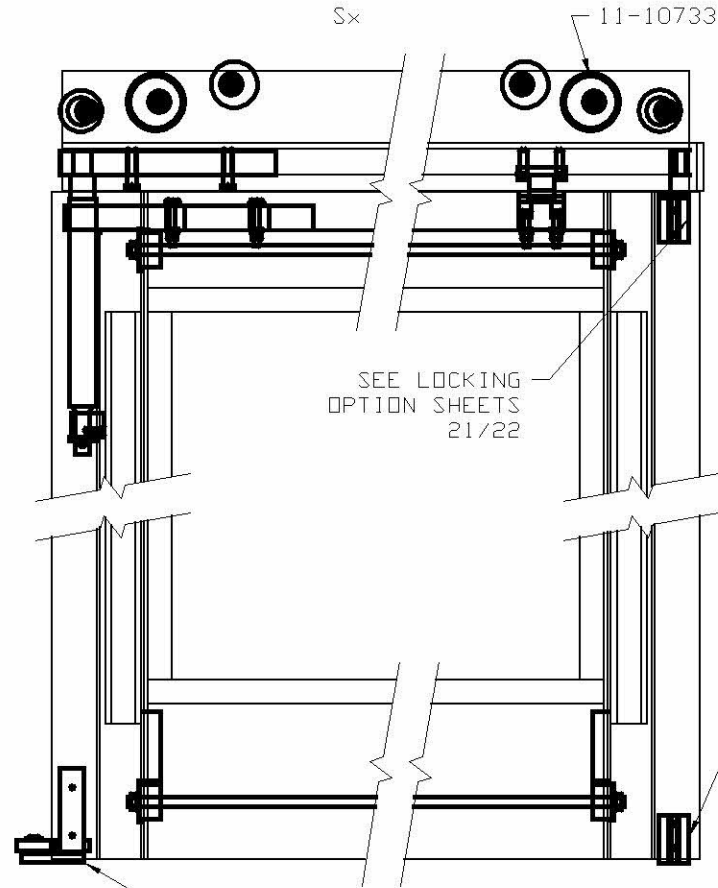
SHEET
18 OF 24

CONSTRUCTION DETAILS
SYSTEM GT 1175 SERIES - FS MODEL

FIXED PANEL ATTACHMENT TO JAMB
APPLICABLE FOR 1175- FS ONLY



FS
PANEL CORNER CONSTRUCTION DETAILS



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PRODUCT:
SYSTEM GT1175
AUTOMATIC SLIDING GLASS DOOR
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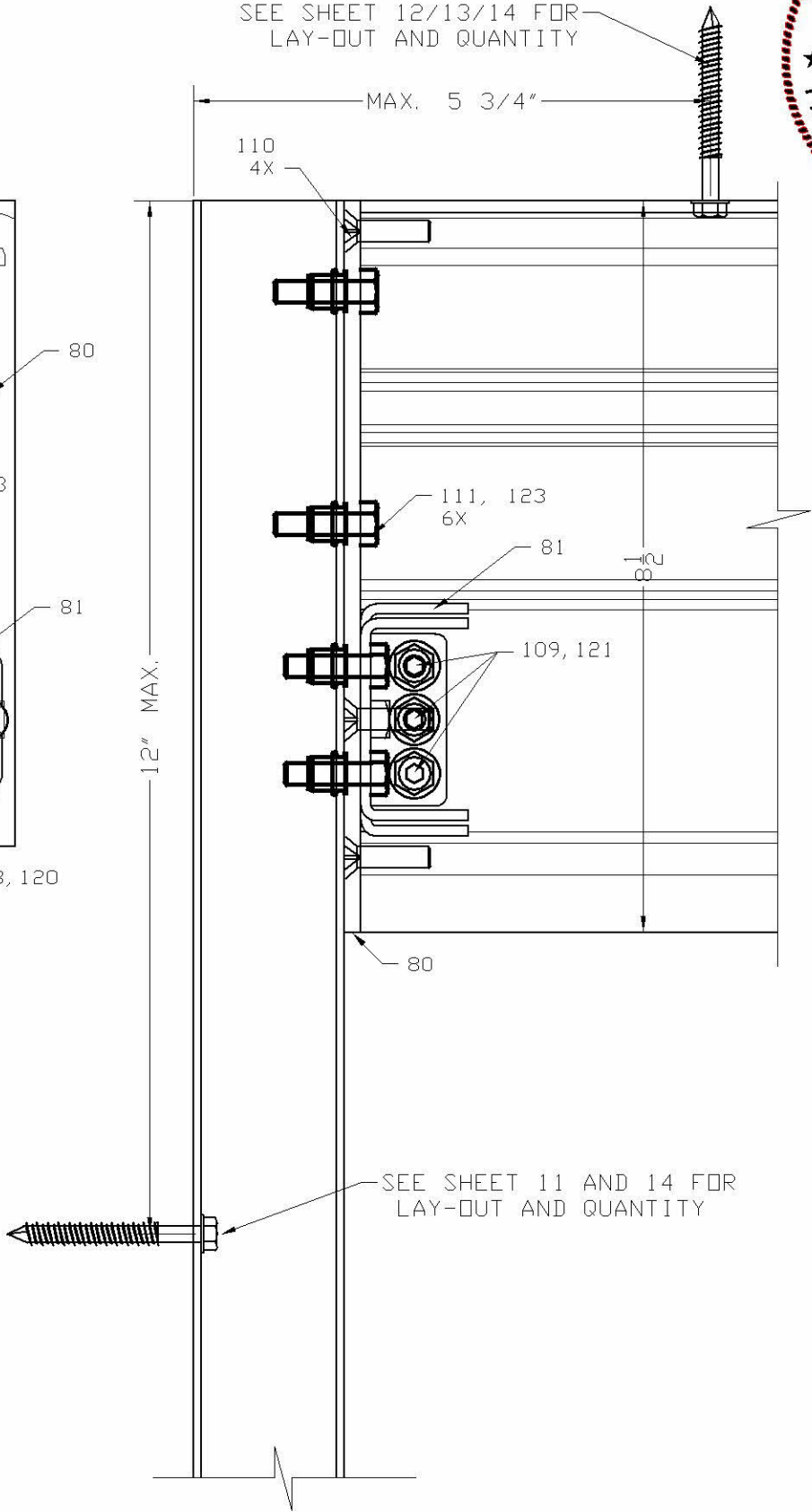
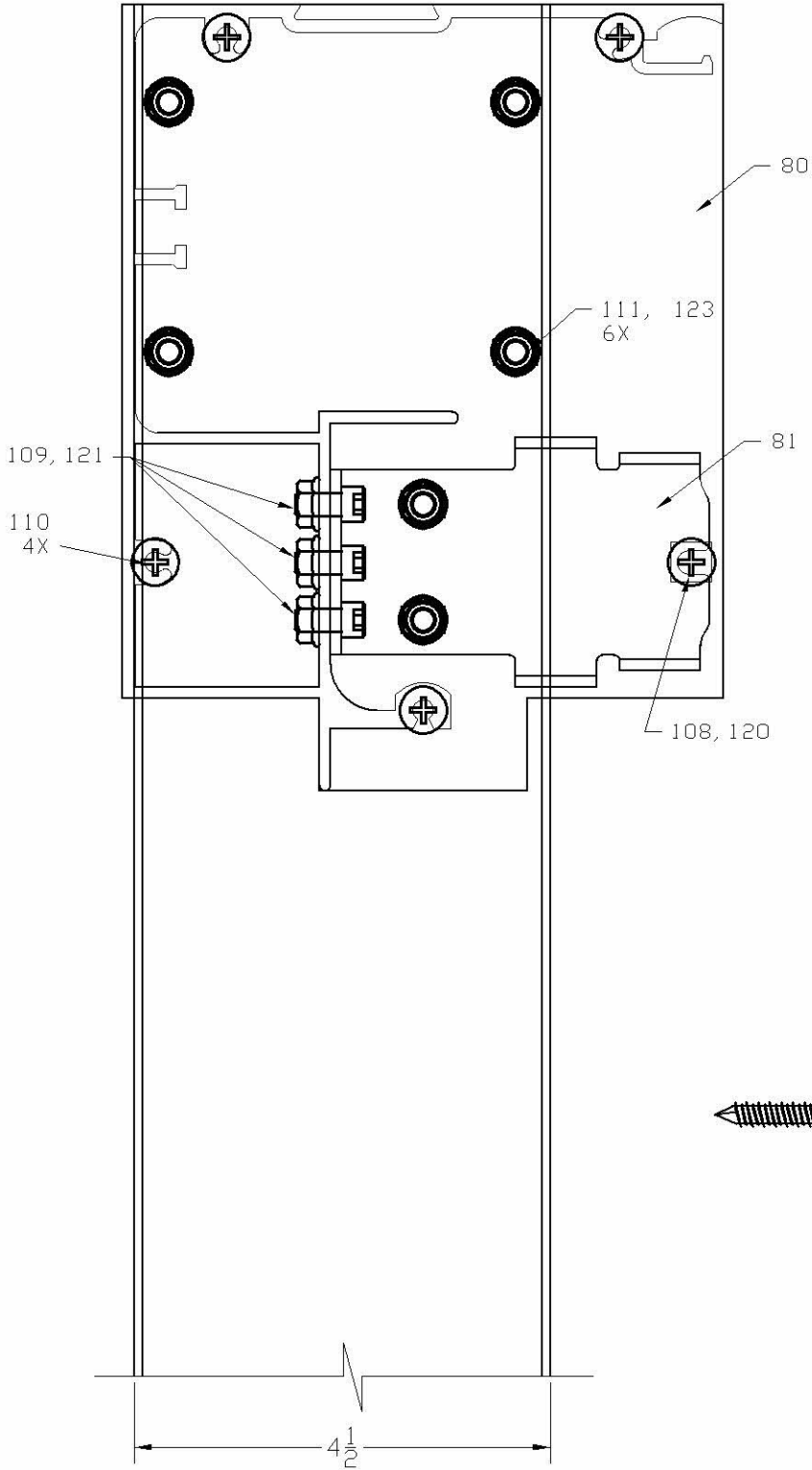
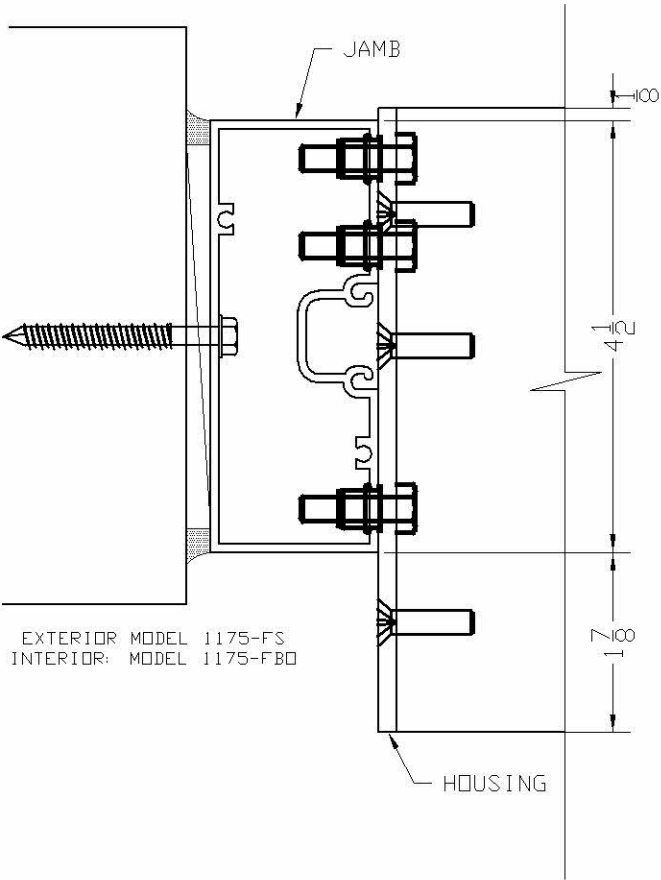
MANUFACTURER:
NABCO
NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
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SCALE:
NA
DATE:
08/11/2021
DRAWING #
21-097
SHEET
19 OF 24

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ENGINEER SEAL
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PE 52609

HOUSING HEADER AND JAMB CONNECTION

SEE SHEET 11 & 14 FOR JAMB
ANCHORING DETAILS



SEE SHEET 11 AND 14 FOR
LAY-OUT AND QUANTITY



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PRODUCT:
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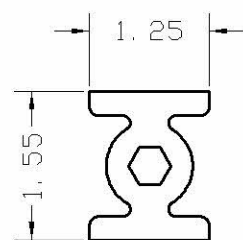
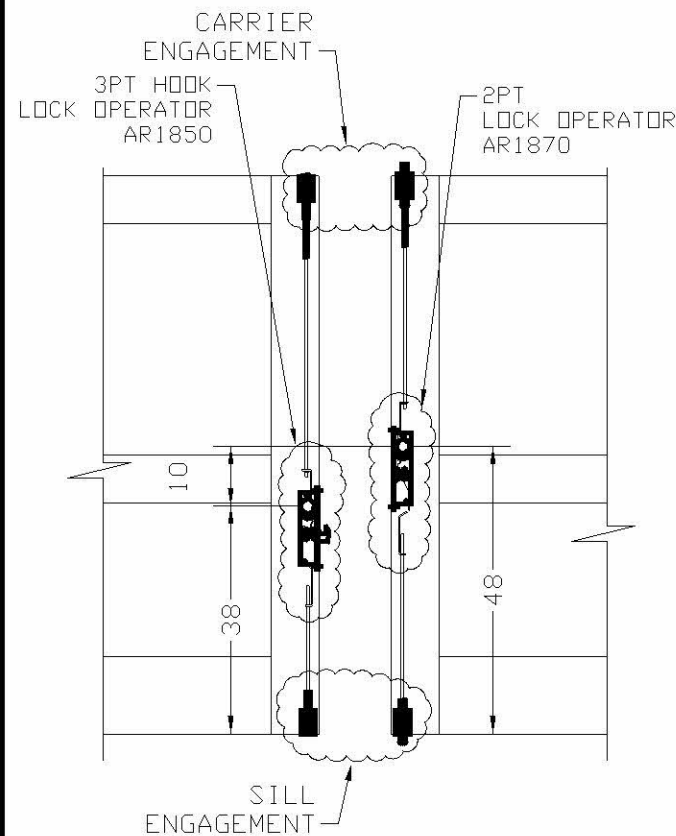
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21-097
SHEET
20 OF 24

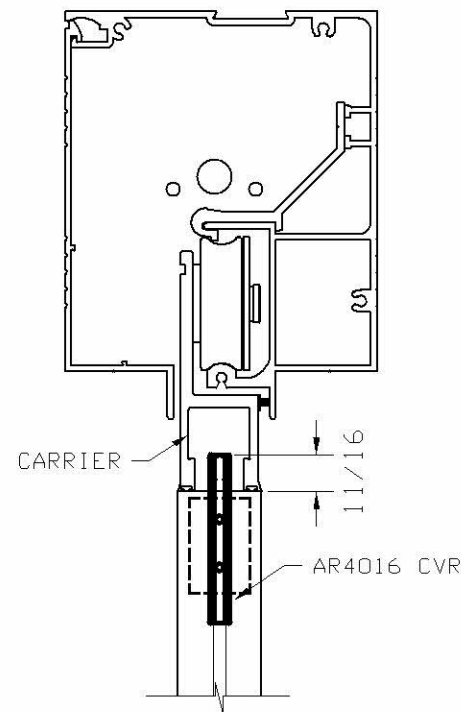


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TYPICAL LOCK PANEL ELEVATION



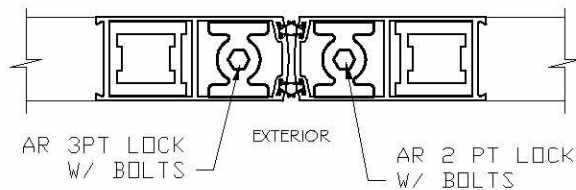
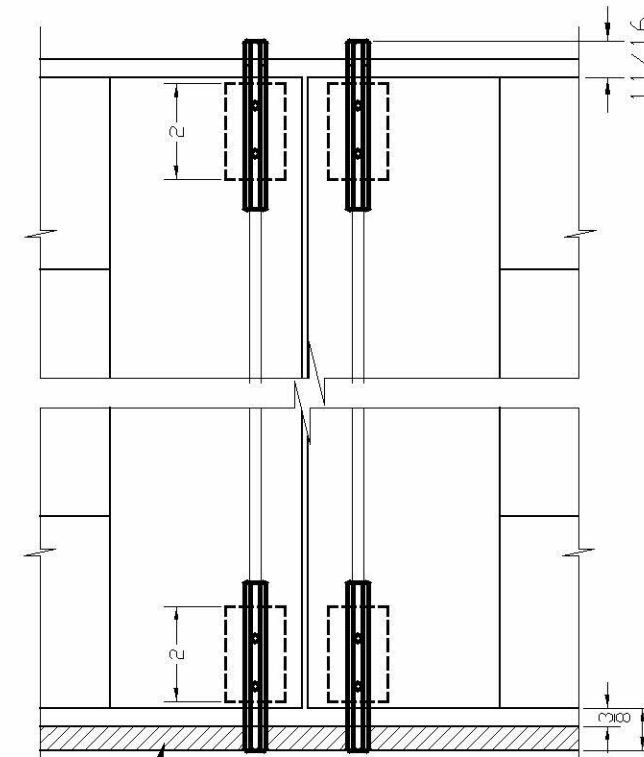
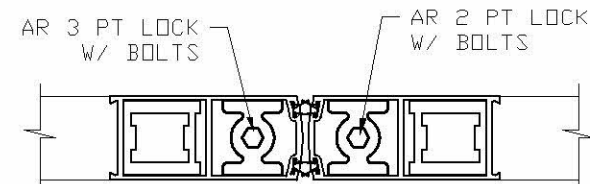
14-13855
LOCKROD GUIDE
ALLOY: 6063-T5



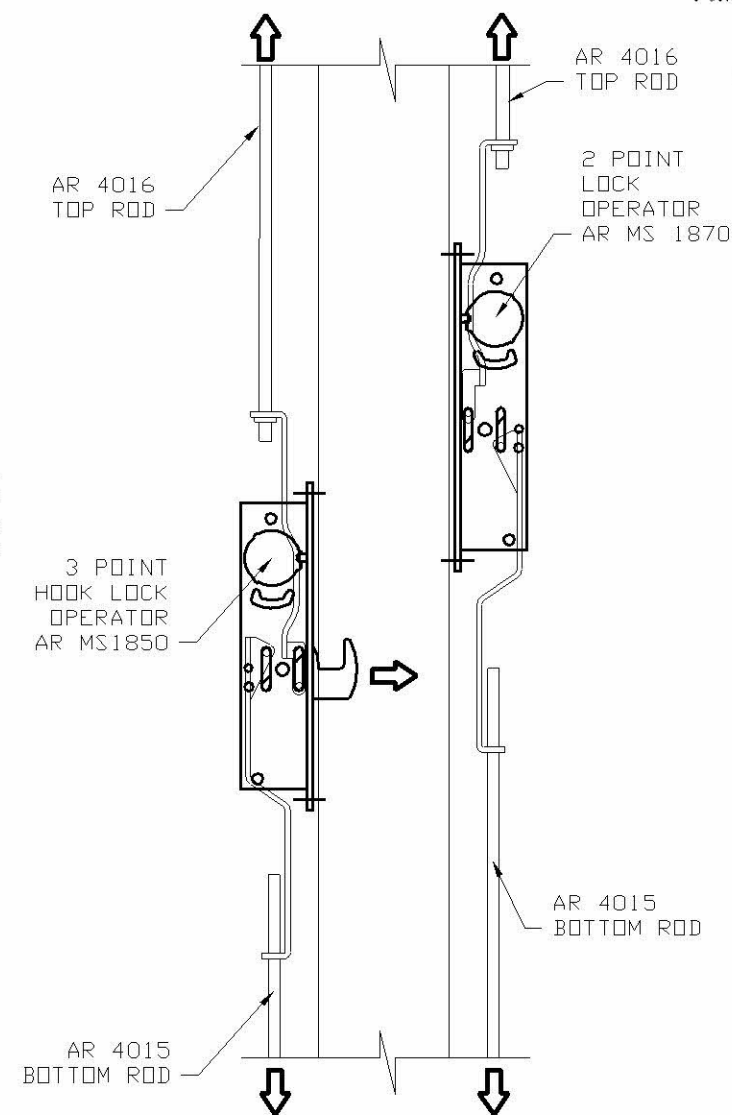
AR 4015 CVR
SILL ENGAGEMENT

HARDWARE LOCK OPTION 1 3 PT AR MS 1850 HOOK LOCK AND 2 PT AR MS 1870 LOCK WITH TOP AND BOTTOM AR 4015 /4016 RODS (CVR) INTERIOR THUMBTURN OR AR 4550 HANDLE 2 EXTERNAL KEY CYLINDERS 2 INDICATORS (BELOW THUMBTURN)

AR 4016 CVR
CARRIER ENGAGEMENT



LOCK OPERATOR



Pedro De Figueiredo
PE 52609
09/01/2021

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NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

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SCALE:
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DATE:
08/11/2021

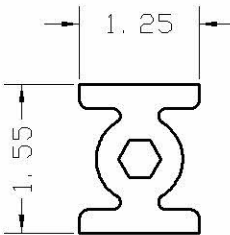
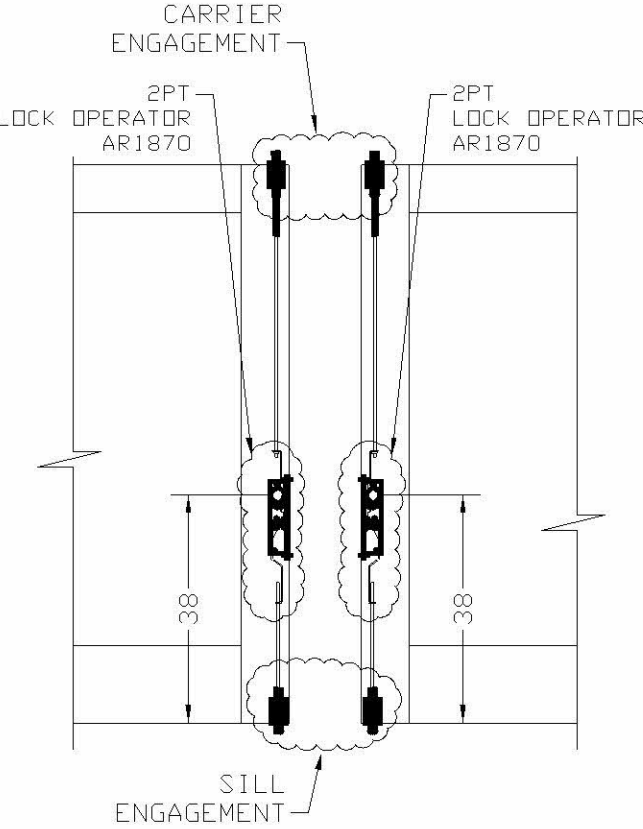
DRAWING #
21-097

SHEET
21 OF 24

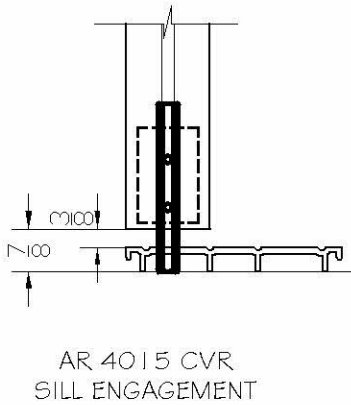
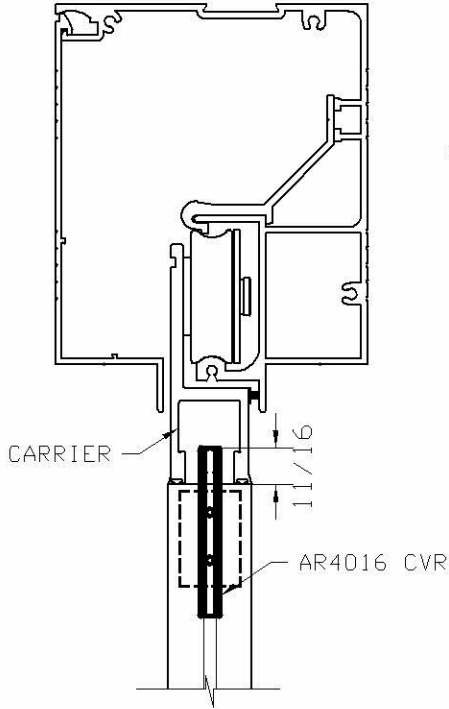


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ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

TYPICAL LOCK
PANEL ELEVATION

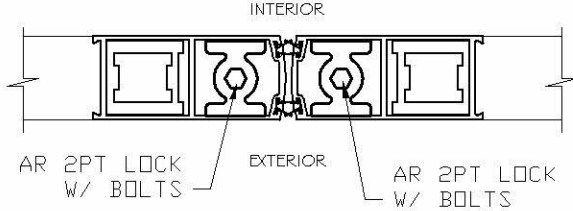
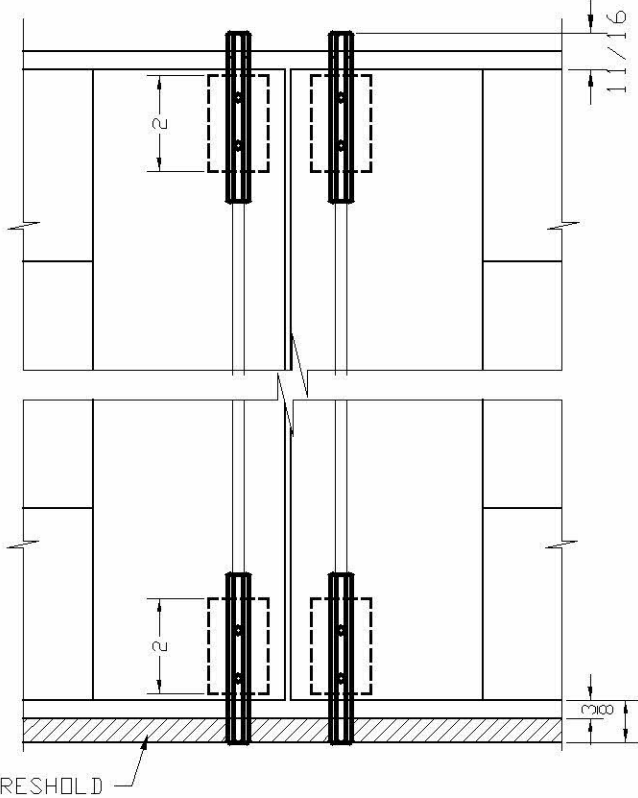
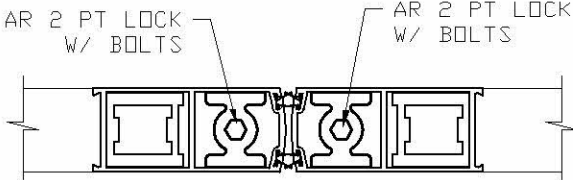


14-13855
LOCKROD GUIDE
ALLOY: 6063-T5

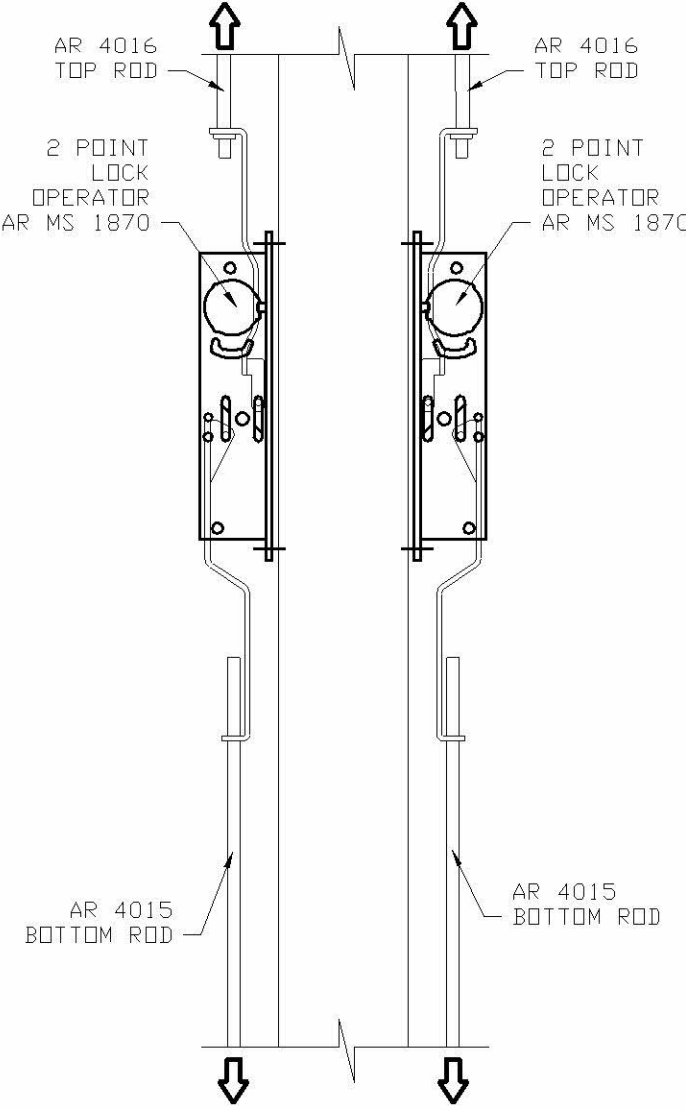


HARDWARE LOCK OPTION 2
(2X) 2 PT AR MS 1870 LOCK
WITH TOP AND BOTTOM AR 4015/ 4016 RODS (CVR)
INTERIOR THUMBTURN OR AR 4550 HANDLE
2 EXTERNAL KEY CYLINDERS
2 INDICATORS (BELOW THUMBTURN)

AR 4016 CVR
CARRIER ENGAGEMENT



LOCK OPERATOR



Pedro De Figueiredo
PE 52609
09/01/2021

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NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:
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NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

SCALE:
NA
DATE:
08/11/2021
DRAWING #
21-097
SHEET
22 OF 24

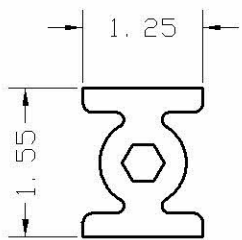
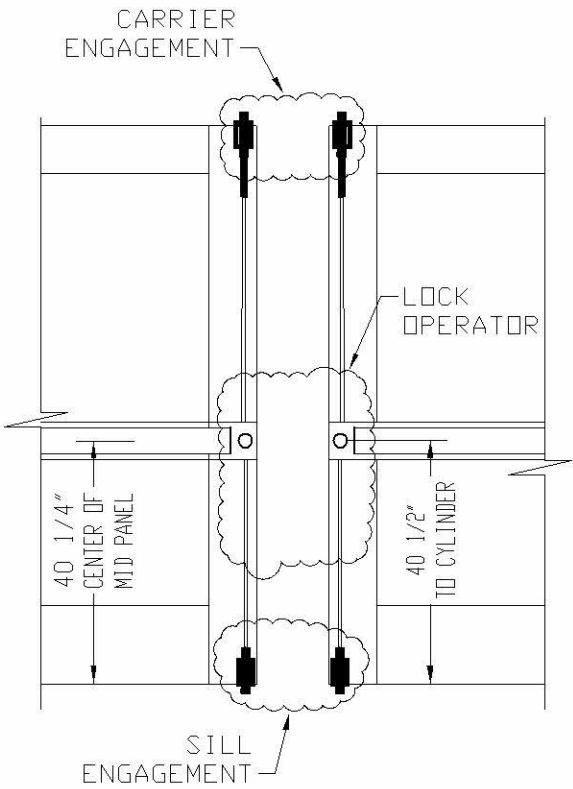


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ENGINEER SEAL
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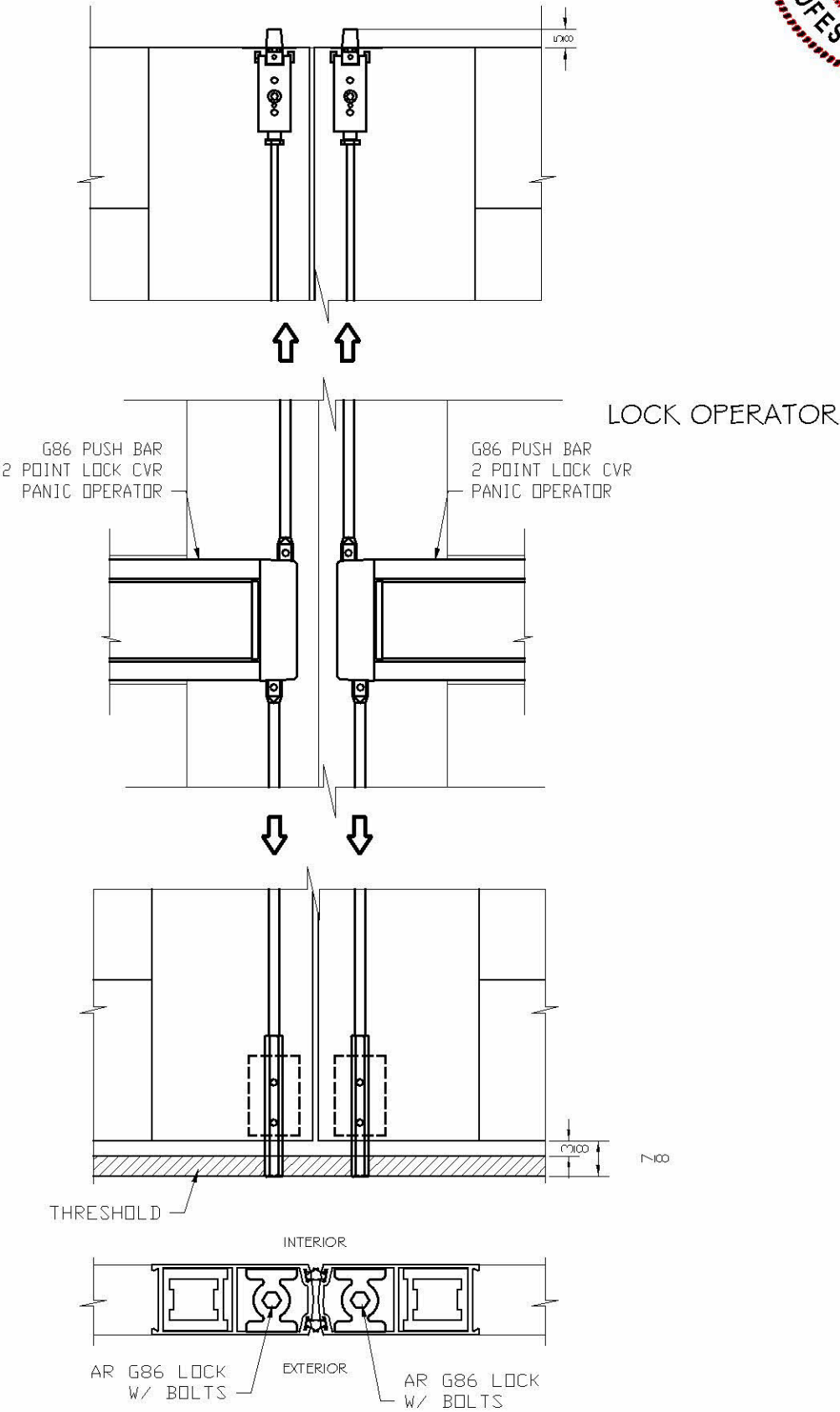
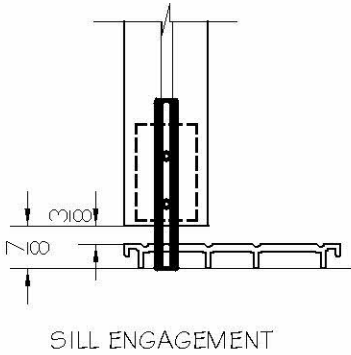
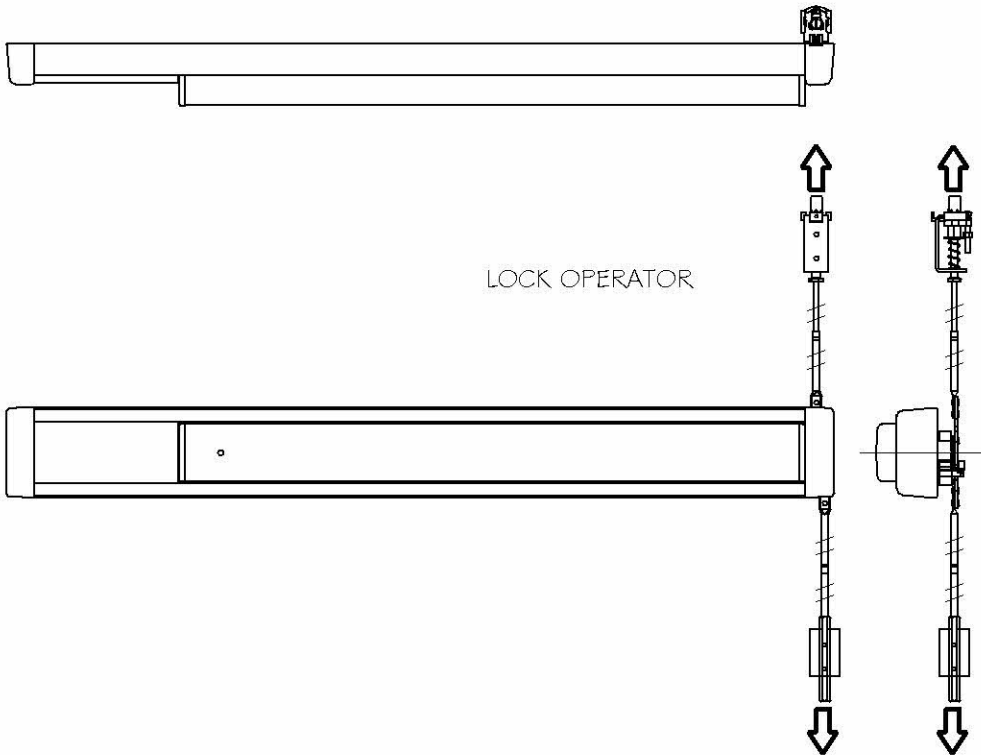
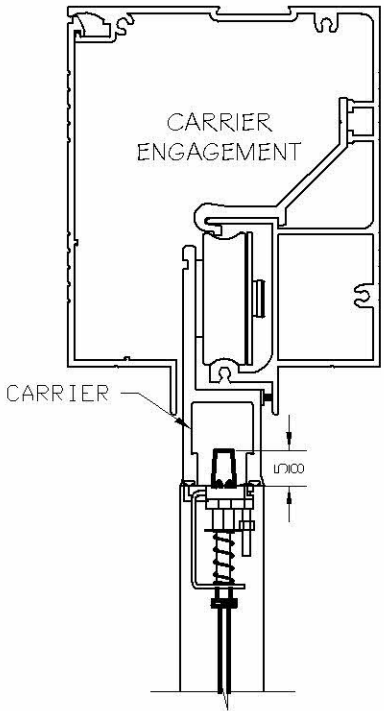
HARDWARE LOCK OPTION 3

(2X) 2 POINTS G86 PANIC DEVICES
2 EXTERNAL KEY CYLINDERS (OPTIONAL)
APPLICABLE ONLY FOR FULL OPEN PANELS (FBO MODEL)
WITH MID HORIZONTAL RAIL

TYPICAL LOCK
PANEL ELEVATION



14-13855
LOWER LOCKROD GUIDE
ALLOY: 6063-T5



Pedro De Figueiredo
PE 52609
09/01/2021

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PRODUCT:
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AUTOMATIC SLIDING GLASS DOOR
NON-IMPACT
LARGE & SMALL MISSILE
LEVELS D, E AND A IMPACT RATED

MANUFACTURER:
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NABCO ENTRANCES
S82 W18717 GEMINI DRIVE
MUSKEGO, WISCONSIN 53150
PHONE: (877) 622-2694 FAX: (262) 679-2505

SCALE:
NA
DATE:
08/11/2021
DRAWING #
21-097
SHEET
23 OF 24

BILL OF MATERIAL (BOM)

ITEM	NEW PART#	OLD PART#	DESCRIPTION
1	M-X0292	24-13163	EXTRUSION, HEADER, 1 PIECE
2	M-X0285	24-9011	EXTRUSION, COVER, HEADER
3	M-60511	14-13290	EXTRUSION, SUPPORT, ANTI-RISE
4	M-X0287	24-9870	EXTRUSION, JAMB, POCKETED, 1.75 X 4.50
5	M-X0296	14-9875	EXTRUSION, FILLER, POCKETED JAMB
6	M-60858	14-13294	EXTRUSION, THRESHOLD, FIXED SIDELITE
7	M-60258	14-9016	EXTRUSION, THRESHOLD, FULL OPEN
8	M-60260	14-9017	EXTRUSION, THRESHOLD, RAMP
9	M-X0304	14-13288	EXTRUSION, STILE, 4", SINGLE WEATHERING
10	M-X0306	14-13289	EXTRUSION, STILE, 4", DOUBLE WEATHERING
11	M-00861	14-13950	EXTRUSION, STIFFENER, STILE
12	M-X0270	14-9359	EXTRUSION, RAIL, 4", TOP
13	M-X0314	24-0328	EXTRUSION, MUNTIN, 4"
14	M-X0267	14-9088	EXTRUSION, RAIL, 6.5"
15	M-X0278	14-5636	EXTRUSION, BRUSH HOLDER
16	M-00863	24-2967	EXTRUSION, RAIL CLIP
17	M-00805	14-13855	EXTRUSION, LOCKROD
18	M-X0256	14-9014	EXTRUSION, HANGER
19	M-X0288	14-9015	EXTRUSION, INTERFACE LEG
20	M-80827	14-13295	EXTRUSION, ENDCAP
21	M-X0332	24-13291	EXTRUSION, GLASS STOP, BASE, HURRICANE
22	M-X0334	24-13292	EXTRUSION, GLASS STOP, TOP, IMPACT GLASS, HURRICANE
23	M-X0336	24-13293	EXTRUSION, GLASS STOP, TOP, NON-IMPACT GLASS, HURRICANE
24	M-X2128		EXTRUSION, GLASS STOP, BASE, H105, LEVEL E
25	M-X2127		EXTRUSION, GLASS STOP, TOP, H105, LEVEL E
26	M-01485		BAR, RECT., ALUM., 5/16 X 1-1/2, 6061-T6
27			
28			
29			
30	M-00690	14-2279-04	PILE, FELT, .25" TALL, .187 WIDE
31	M-00688	14-2279-05	PILE, FELT, .25" TALL, .270 WIDE W/ ADHESIVE
32	M-00340	14-8326-05	PILE, FELT, .37" TALL, .270 WIDE
33	M-00691	14-2279-09	PILE, FELT, .45" TALL, .270 WIDE
34	M-00695	14-4899-60	BRUSH, NYLON, .73" TALL
35	M-01526	14-4899-100	BRUSH, NYLON, 1.00" TALL
36	M-71239	14-3933-02	GASKET, VINYL, 1.00" TALL
37	M-00281	14-8161	TAPE, FOAM, .25 X .50
38	M-00311	14-14191	GASKET, WEDGE, .187 FACE CLEARANCE
39	M-00308	14-13307	GASKET, GLAZING, .150 FACE CLEARANCE
40			ADHESIVE, SILICONE, DOW #995
41	M-02129		GASKET, WEDGE, .250 FACE CLEARANCE
42	M-00284		GASKET, GLAZING, .150 FACE CLEARANCE
43			
44			
45			
46	M-00422	14-9225	PLATE, BACKING, TIE ROD
47	M-00272	14-3624	TIE ROD, 3/8"-16
48	M-00870	14-0984	CLIP, RAIL, TIE ROD
49	M-00880	14-14192	CLIP, RAIL, 2.9" LONG
50	A-00323	24-12002-50	ASM, CARRIER BAR, MEDIUM STILE HURRICANE
51	A-00319	21-14040	ASM, RETAINER, CARRIER, ECCENTRIC
52	A-00162	11-10733	ASM, ROLLER, HANGER, 1175
53	A-00305	21-14035	ASM, ANTI-RISE, HURRICANE
54	M-00483	24-9483	BLOCK, PANIC CATCH, CARRIER
55	M-00487	24-9485	BLOCK, PANIC CATCH, TOP RAIL
56	A-00301	21-14030	ASM, ENDCAP, CARRIER
57	M-00807	14-14060	BLOCK, GUIDE, LOCKROD
58	M-00997	14-14062	LOCKROD, 1/4"-20
59	M-00998	14-14064	LOCKROD, #12-24
60	A-00029	21-9507	ASM, TOP PIVOT, SWING PANEL
61	M-00744	14-14038	PIVOT, BOTTOM, SWING PANEL
62	M-00975	24-14039	PIVOT, FLOOR, SWING PANEL

ITEMS # 27-29, 43-45 ARE NOT USED IN THE BOM

ITEM	NEW PART#	OLD PART#	DESCRIPTION
63	M-00606	24-2458	BUSHING, BOTTOM PIVOT, SWING PANEL
64	M-00973	24-14043	INTERLOCK, FEMALE
65	A-01063	14-14068	BAR, NUT, FEMALE INTERLOCK
66	M-00983	14-14044	INTERLOCK, MALE
67	A-01084	14-14033	BAR, NUT, MALE INTERLOCK
68	A-00335	21-14045	ASM, BOTTOM GUIDE, FULL OPEN
69			
70	M-00365	14-14055	BRACKET, HEADER, FIXED SIDELITE
71	M-00972	14-14056	BRACKET, JAMB TUBE, FIXED SIDELITE
72	M-00993	14-14057	BRACKET, THRESHOLD, FIXED SIDELITE
73	M-00969	14-14053	PLATE, COVER, FIXED SIDELITE
74	A-01086	14-14054	PLATE, NUT
75	A-00345	21-14050	ASM, DOUBLE WHEEL ROLLER, HURRICANE
76			
77			
78			
79			
80	M-X0582	24-13282	ENDCAP, ONE PIECE HEADER
81	M-00411	24-9022	BRACKET, HEADER, 1175
82			
83			
84			
85			
86			
87			
88			
89			
90	V-00005	24-0564	LOCK, 3PT, ADAMS RITE MS18505
91	V-00012	14-2046	LOCK, 2 PT, ADAMS RITE 1870
92	V-X0069	24-14072	LOCK, PANIC, ADAMS RITE #686-11-36
93	V-X0116	22-0090	CYLINDER, THUMBTURN
94	V-X0123	22-4495	CYLINDER, KEY
95	V-X0017	12-1400	INDICATOR, EXIT, ADAMS RITE #4089
96	V-X0071	14-14073	KIT, ESCUTCHEON, ADAMS RITE #8651-X-XXX
97	V-00303	22-10256	ADAMS RITE 4016 TOP ROD CVR
98	V-00094	22-4412	ADAMS RITE 4015 BOTTOM ROD CVR
99			
100	T-00043	24-0011-72	SCREW, #10-24 X .38 LONG, FHMS, UNDERCUT
101	T-00041	24-0011-53	SCREW, #10-32 X .50 LONG, FHMS
102	T-00176	24-0011-131	SCREW, #10-32 X .50 LONG, FHMS, UNDERCUT
103	T-00027	24-0012-14	SCREW, #10-32 X .50 LONG, PHMS
104	T-00175	24-0010-62	SCREW, #10-32 X .63 LONG, SHCS
105	T-00430	24-0031-24	SCREW, #10 X 1.00 LONG, FHMS
106	T-00016	24-0011-70	SCREW, 1/4"-20 X .44 LONG, FHMS, UNDERCUT
107	T-00174	24-0011-144	SCREW, 1/4"-20 X .63 LONG, FHCS
108	T-00015	24-0011-13	SCREW, 1/4"-20 X .75 LONG, FHMS
109	T-00077	24-0010-09	SCREW, 1/4"-20 X .75 LONG, SHCS
110	T-00061	24-4941-02	SCREW, 1/4"-20 X 1.00 LONG, FHMS, TRI-LOBE
111	T-00139	24-0014-01	SCREW, 1/4"-20 X 1.00 LONG, HHCS
112	T-00037	24-0010-16	SCREW, 1/4"-20 X 1.25 LONG, SHCS
113	T-00028	24-0014-12	SCREW, 1/4"-20 X 1.75 LONG, HHCS
114	T-00023	24-0014-30	SCREW, 1/4" X .75 LONG, TEKS
115			
116	T-00032	24-0014-27	SCREW, 3/8"-16 X .75 LONG, HHCS
117	T-00014	24-0010-43	SCREW, 3/8"-16 X 1.50 LONG, SHCS, LOW HEAD
118	T-00170	24-0016-20	SETSCREW, 5/16"-18 X .75 LONG
119	T-00091	24-0016-30	SETSCREW, 5/16"-18 X 1.25 LONG
120	T-00058	24-0021-27	NUT, 1/4"-20, SQUARE
121	T-00056	24-0021-35	NUT, 1/4"-20, WHIZLOCK
122	T-00025	24-0021-21	NUT, 3/8"-16, WHIZLOCK
123	T-00048	14-8640-01	RIVNUT, 1/4"-20
124	T-00054	24-0017-46	WASHER, FLAT, 1/4"

ITEMS # 69, 76-79, 82-89, 99 AND 115 ARE NOT USED IN THE BOM



Pedro De Figueiredo
 PE 52609
 09/01/2021

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
 PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.
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PRODUCT:
 SYSTEM GT1175
 AUTOMATIC SLIDING GLASS DOOR
 NON-IMPACT
 LARGE & SMALL MISSILE
 LEVELS D, E AND A IMPACT RATED

MANUFACTURER:

 NABCO ENTRANCES
 S82 W18717 GEMINI DRIVE
 MUSKEGO, WISCONSIN 53150
 PHONE: (877) 622-2694 FAX: (262) 679-2505

SCALE:
 NA
 DATE:
 08/11/2021
 DRAWING #
 21-097
 SHEET
 24 OF 24

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