

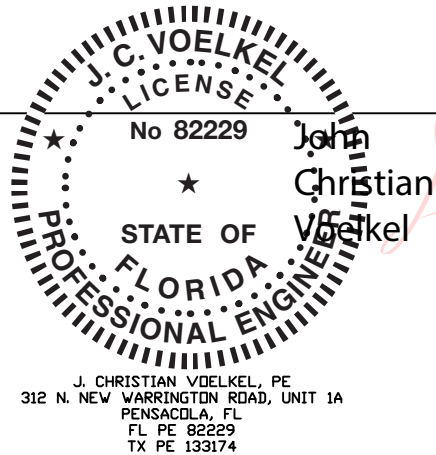
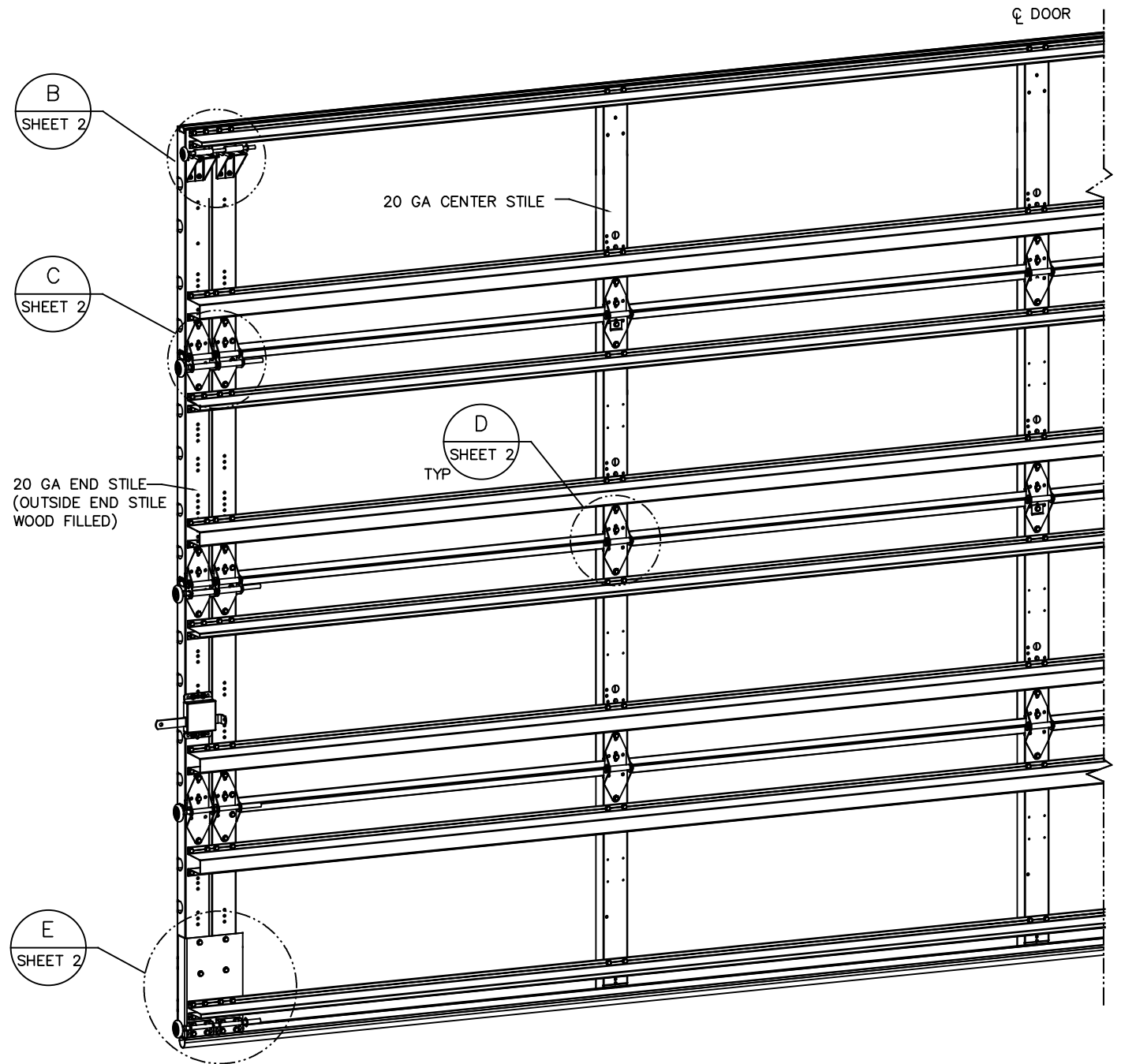
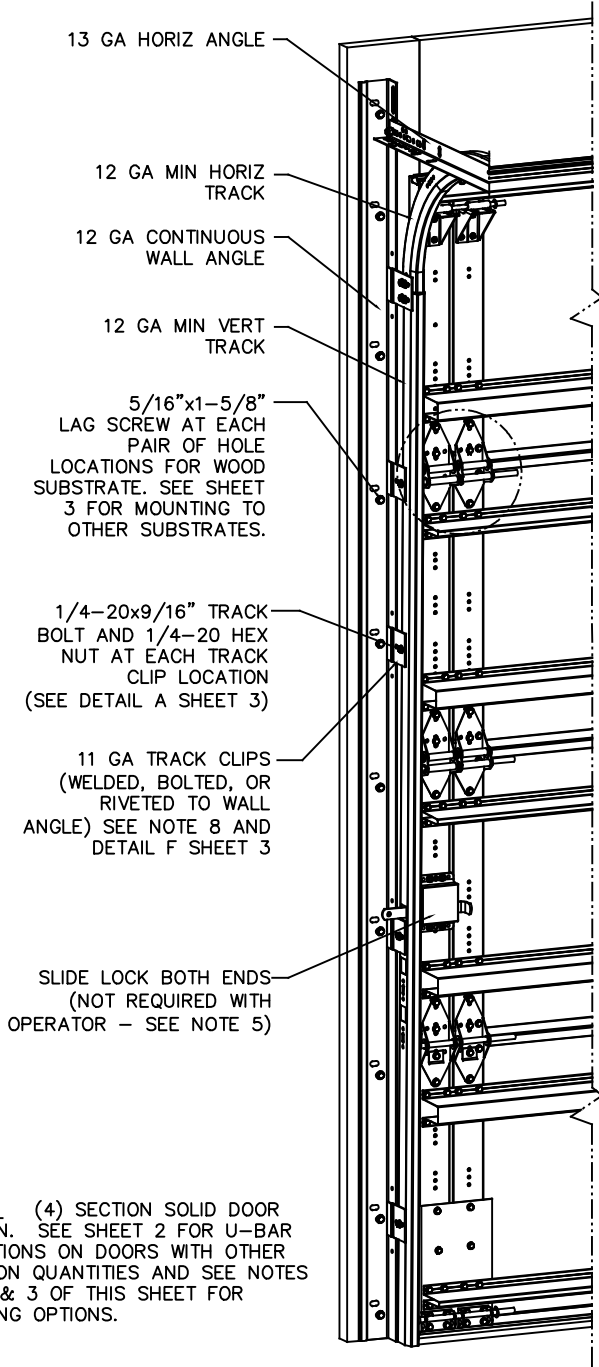
NOTES

1. NON-IMPACT RESISTANT OPTION - .125" MINIMUM DSB GLAZING MEETS UNIFORM STATIC DESIGN PRESSURES SHOWN ON THIS DRAWING. GLAZING SHALL HAVE A MAXIMUM HEIGHT OF 6.70" AND A MAXIMUM LENGTH OF 24.00". GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS.
2. IMPACT RESISTANT GLAZING OPTION - IMPACT RESISTANT GLAZING SYSTEM MAY BE INSTALLED IN INTERMEDIATE SECTIONS (WITH OR WITHOUT DECORATIVE INSERTS). GLAZING SHALL BE 1/4" POLYCARBONATE. MAXIMUM GLAZING DIMENSIONS SHALL BE 11" x 17", FASTENED WITH A MINIMUM #8 X 1" SMS: 3X ALONG THE HORIZONTAL AND 2X ALONG THE VERTICAL.
3. ALUMINUM FULL VIEW OPTION - ALUMINUM FULL VIEW SECTION MAY REPLACE ANY SECTION EXCEPT TOP AND BOTTOM PANELS. ALUMINUM FULL VIEW SECTION SHALL HAVE RAILS AND STILES OF EXTRUDED ALUMINUM ALLOY 6063-T6 AND .125" MINIMUM DSB GLAZING INSTALLED WITH ALUMINUM RETAINERS IN ORDER TO MEET UNIFORM STATIC DESIGN PRESSURES SHOWN ON THIS DRAWING. GLAZING IS NOT IMPACT RESISTANT AND DOES NOT MEET THE REQUIREMENTS FOR WIND-BORNE DEBRIS REGIONS.
4. MINIMUM OF 1" OVERLAP ON BOTH JAMBS REQUIRED TO MEET NEGATIVE DESIGN PRESSURES.
5. SLIDE LOCK OR OPERATOR REQUIRED.
6. SECTION STEEL TO HAVE THE FOLLOWING MINIMUM THICKNESS:
421, 423 - 20 GA
427, 429 - 24 GA
434, 436 - 25 GA
7. THE DESIGN OF THE SUPPORTING STRUCTURAL ELEMENTS SHALL BE THE RESPONSIBILITY OF THE PROFESSIONAL OF RECORD FOR THE BUILDING OR STRUCTURE AND IN ACCORDANCE WITH CURRENT BUILDING CODES FOR THE LOADS LISTED ON THIS DRAWING.
8. TRACK CLIPS SHALL BE LOCATED WITH CENTERLINE OF BOTTOM CLIP SPACED 10" MAX FROM BOTTOM OF TRACK AND REMAINING TRACK CLIPS SPACED AT 24" O.C. MAX. SPACING BETWEEN TOP TRACK CLIP AND SPLICE PLATE SHALL BE 30" O.C. MAX.
9. WHEN MOUNTING TO WOOD, DOOR JAMB TO BE MINIMUM 2x6 STRUCTURAL GRADE LUMBER. REFER TO JAMB CONNECTION SUPPLEMENT FOR ATTACHMENT TO SUPPORTING STRUCTURE.

SUPERIMPOSED DESIGN PRESSURE LOADS ON SUPPORTING STRUCTURE

MAX DOOR WIDTH	DOOR HEIGHT	MAX UNIFORM LOAD EACH JAMB (PLF)
16'-2"	ALL	+355.7/-402.6

STATIC PRESSURE RATINGS	APPROVED SIZES
DESIGN PRESSURE(PSF): +44.0/-49.8	MAX WIDTH: 16'-2" MAX HEIGHT: 24'-1"
IMPACT/CYCLIC RATED: YES	MAX SECTION HEIGHT: 24'



Digitally signed
by John Christian Voelkel
Date: 2021.02.24 23:59:15 -06'00'

THE DOORS ARE DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 IRC AND THE 2018 IBC.

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THIRD ANGLE PROJECTION					HOLE DIAMETER			N/A		OVERHEAD DOOR		T CLARK		1/14/21		WINDLOAD/OPTION CODE 2047	
					UNDER .251 +.004/--.003			WHOLE NUMBERS: ± .25		LEWISVILLE, TEXAS		J QIAN		1/8/21		SERIES 421/423/427/429/434/436,	
					.251 TO .500 +.006/--.003			.X ± .1		MATERIAL:		T CLARK		2/17/21		44.0/-49.8 PSF, 16'-2" MAX	
					OVER .500 +.008/--.003			.XX ± .03		N/A							
					FRACTIONS			.XXX ± .010									
					± 1/16			ANGLES: ± .5°									
REF DWG					USED ON			EA								DRAWING NUMBER	
																D- 411801	
																SCALE: N/A	
																SHEET 1 OF 3	

D

C

B

A

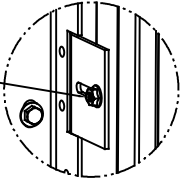
D

C

B

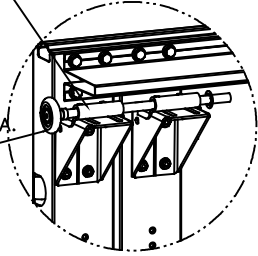
A

1/4-20x9/16" TRACK BOLT
AND 1/4-20 HEX NUT
THROUGH THE SLOT IN THE
TRACK AND TRACK CLIP



DETAIL A

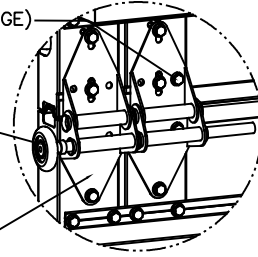
12 GA COMMERCIAL TOP FRAME
BRACKETS WITH 13 GA ROLLER
CARRIERS, EACH ATTACHED WITH
(4) 1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREWS



DETAIL B

3" STEEL ROLLER WITH 7/16" DIA.
x 9" LONG STEM AND 7/16"
PUSH NUT AT TOP ROLLER
LOCATION. 1/4" MAX BETWEEN
PUSH NUT AND BRACKET.

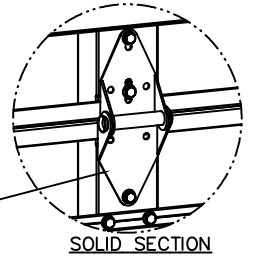
ADD (2) 1/4-14x7/8" SELF
DRILLING CRIMPTITE SCREWS
(INSIDE OF EACH INSIDE END HINGE)



DETAIL C

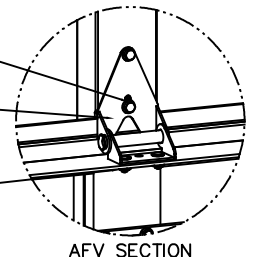
3" STEEL ROLLER WITH 9/16"
DIA. x 9" LONG STEM AT ALL
ROLLER LOCATIONS EXCEPT
TOP AND BOTTOM ROLLERS

11 GA MODIFIED WIDE BODY
END HINGE ATTACHED WITH
(4) 1/4-14x7/8" SELF
DRILLING CRIMPTITE SCREWS



SOLID SECTION

14 GA WIDE BODY
INTERMEDIATE HINGE
ATTACHED WITH (4)
1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREWS

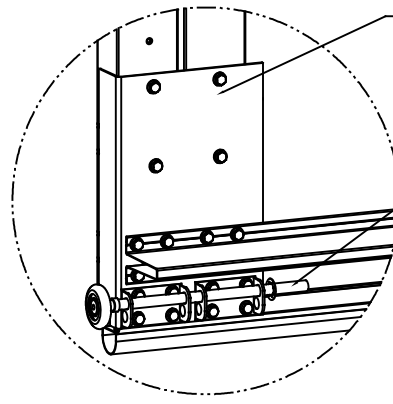


AFV SECTION
DETAIL D

(2) 1/4-14x7/8" SELF DRILLING
CRIMPTITE SCREWS

HALF HINGE

(2) 1/4 x 1/2"
CARRIAGE BOLTS AND
1/4" FLANGE NUTS

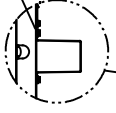
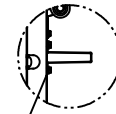


DETAIL E

11 GA DOUBLE BOTTOM BRACKET
ATTACHED WITH (20) 1/4-14x7/8"
SELF DRILLING CRIMPTITE SCREWS (8
OF WHICH ARE USED IN ATTACHMENT
OF STRUT AND 8 OF WHICH ARE
USED TO ATTACH 12 GA ROLLER
CARRIERS)

3" 1144 STEEL ROLLER
WITH 7/16" DIA. x 9"
LONG STEM AND 7/16"
PUSH NUT. 1/4" MAX
BETWEEN PUSH NUT AND
BRACKET.

ATTACH U-BARS WITH
(4) 1/4-14x7/8" SELF
DRILLING CRIMPTITE SCREWS
AT ALL STILE LOCATIONS, TYP.



(12) SECTION DOORS WITH
(12) 4" 18 GA 80 KSI C-CHANNELS
(12) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(11) SECTION DOORS WITH
(11) 4" 18 GA 80 KSI C-CHANNELS
(11) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(10) SECTION DOORS WITH
(10) 4" 18 GA 80 KSI C-CHANNELS
(10) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(9) SECTION DOORS WITH
(9) 4" 18 GA 80 KSI C-CHANNELS
(9) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

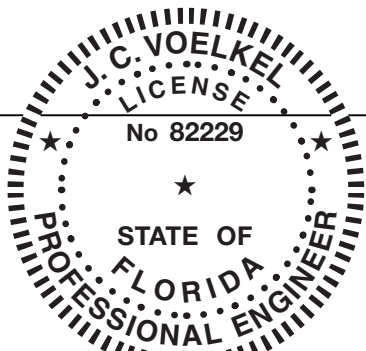
(8) SECTION DOORS WITH
(8) 4" 18 GA 80 KSI C-CHANNELS
(8) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(7) SECTION DOORS WITH
(7) 4" 18 GA 80 KSI C-CHANNELS
(7) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(6) SECTION DOORS WITH
(6) 4" 18 GA 80 KSI C-CHANNELS
(6) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

(5) SECTION DOORS WITH
(5) 4" 16 GA 80 KSI C-CHANNELS
(5) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN

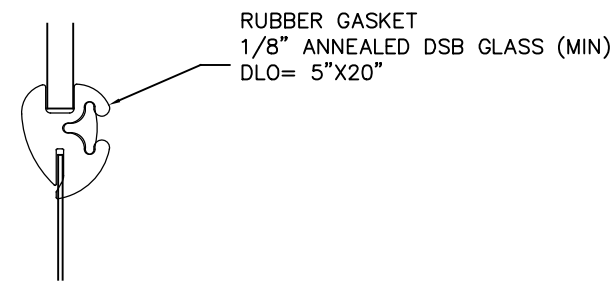
(4) SECTION DOORS WITH
(4) 4" 16 GA 80 KSI C-CHANNELS
(4) 3" 18 GA 80 KSI U-BARS
LOCATED AS SHOWN



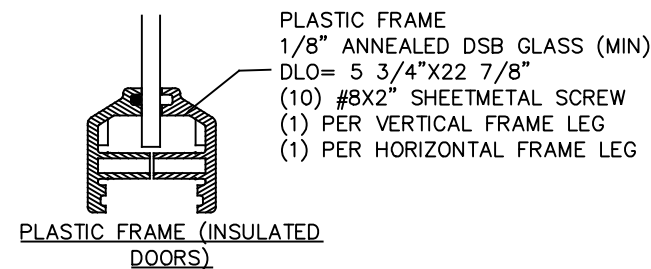
J. CHRISTIAN VOELKEL, PE
312 N. NEW WARRINGTON ROAD, UNIT 1A
PENSACOLA, FL
FL PE 82229
TX PE 133174

STATIC PRESSURE RATINGS	APPROVED SIZES
DESIGN PRESSURE(PSF): +44.0/-49.8	MAX WIDTH: 16'-2"
	MAX HEIGHT: 24'-1"
IMPACT/CYCLIC RATED: YES	MAX SECTION HEIGHT: 24"

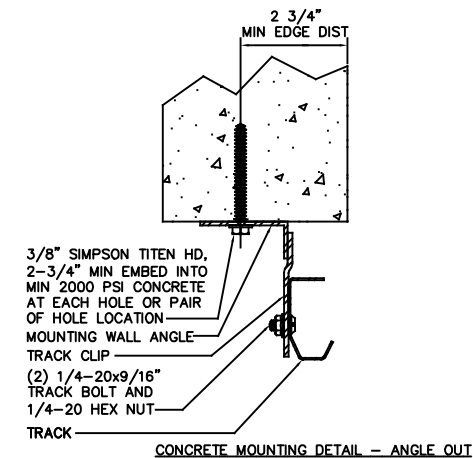
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REF DWG	USED ON	TOLERANCES UNLESS OTHERWISE SPECIFIED	HOLE DIAMETER	WHOLE NUMBERS:	FINISH	UNIT OF MEASURE	MATERIAL	NAME	DATE
			UNDER .251 +.004/--.003	± .25	N/A			DRAWN BY:	
			.251 TO .500 +.006/--.003	.X ± .1				T CLARK	1/14/21
			OVER .500 +.008/--.003	.XX ± .03				CHECKED BY:	
			FRACTIONS	.XXX ± .010				J QIAN	1/8/21
			± 1/16	ANGLES: ± .5°				APPROVED BY:	
								T CLARK	2/17/21
							DRAWING TITLE: WINDLOAD/OPTION CODE 2047		
							SERIES 421/423/427/429/434/436, 44.0/-49.8 PSF, 16'-2" MAX		
							DRAWING NUMBER D- 411801		
							SCALE: N/A SHEET 2 OF 3		



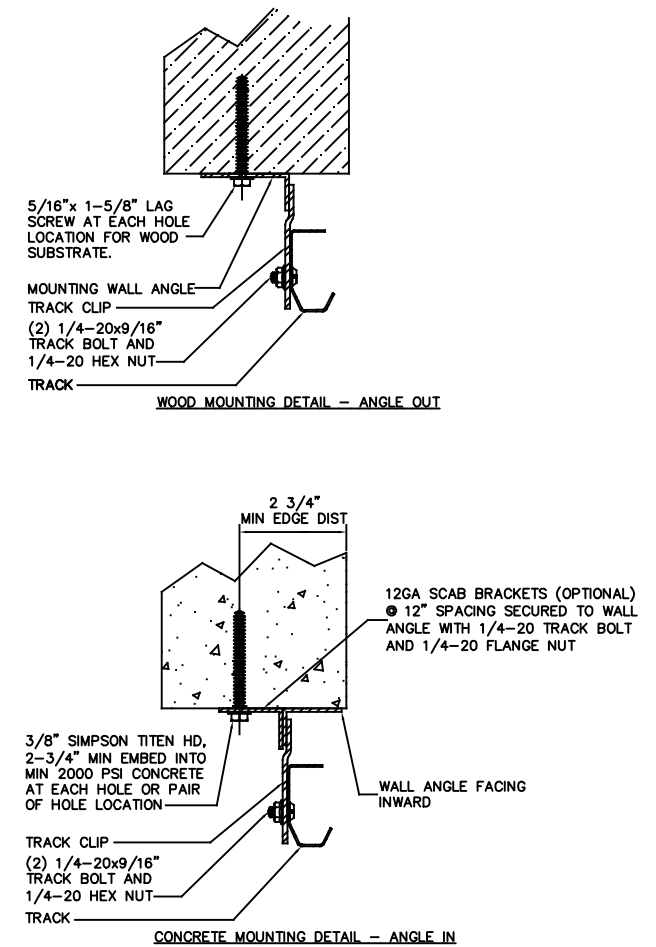
RUBBER FRAME GASKET
(NON-INSULATED DOORS)



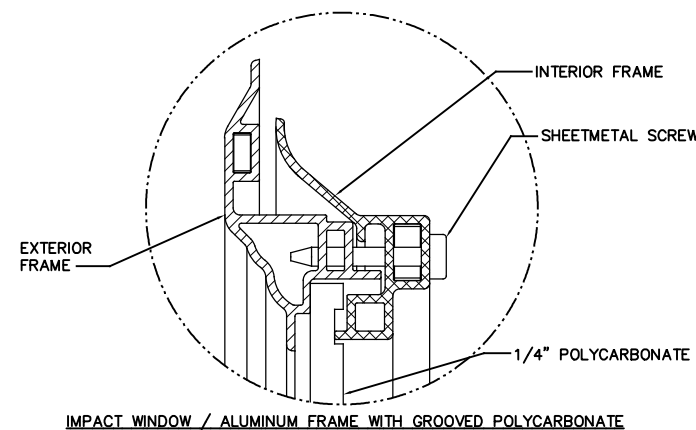
PLASTIC FRAME (INSULATED DOORS)



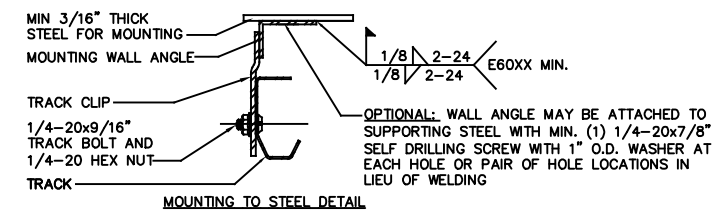
CONCRETE MOUNTING DETAIL – ANGLE OUT



CONCRETE MOUNTING DETAIL - ANGLE IN



IMPACT WINDOW / ALUMINUM FRAME WITH GROOVED POLYCARBONATE



MOUNTING TO STEEL DETAIL

