

4

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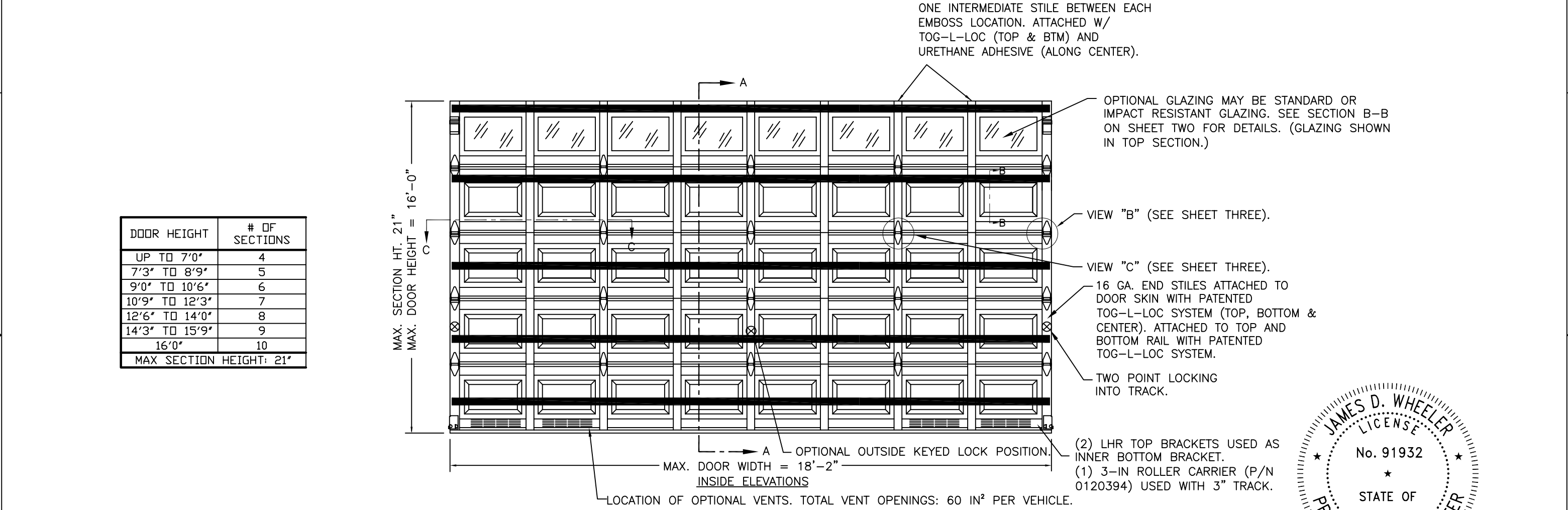
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'CLASSIC' RAISED PANEL EMBOSS DOORS								
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--
		SHORT PANEL			LONG PANEL			
* - MODEL 4F IS FLUSH								

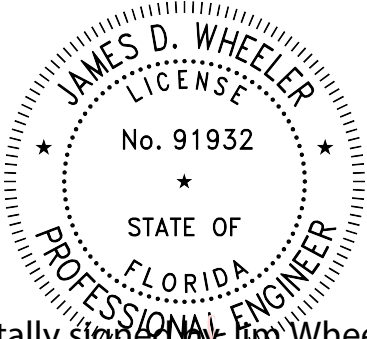
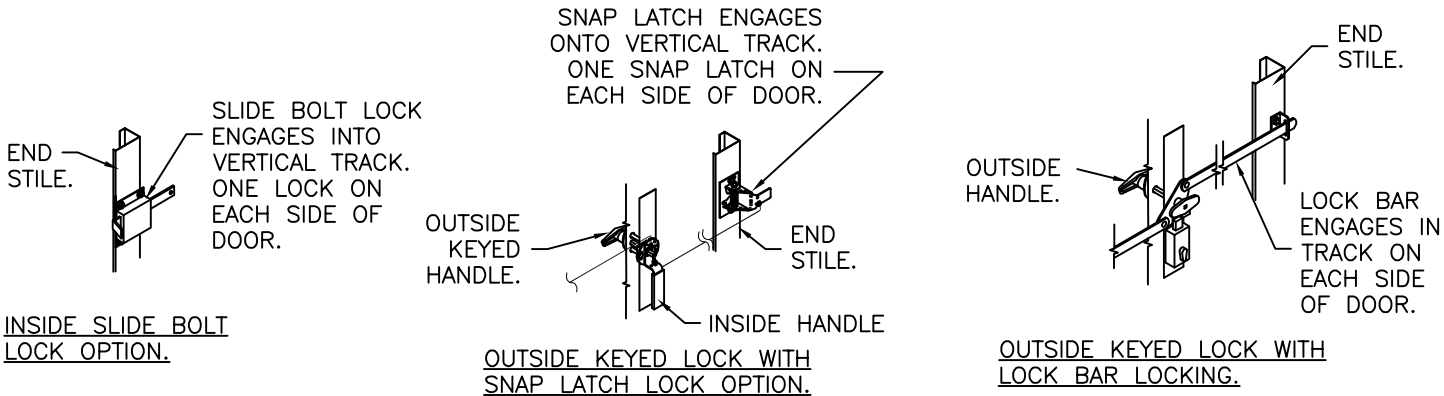
'CARRIAGE HOUSE' RAISED PANEL DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV
HOLMES 'ARTISTRY'	AR5S	AR5SV
IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV
		SHORT PANEL

SHEET:
1 OF 4

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
00	—	7/22/14	—	SH	INITIAL DRAWING.
01	—	4/13/15	—	SH	REVISED LAYOUT.
02	—	8/10/20	—	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART
03	—	2/26/24	—	JDW	ADDED M/N 96 AND 96V.



DOOR HEIGHT	# OF SECTIONS
UP TO 7'0"	4
7'3" TO 8'9"	5
9'0" TO 10'6"	6
10'9" TO 12'3"	7
12'6" TO 14'0"	8
14'3" TO 15'9"	9
16'0"	10
MAX SECTION HEIGHT: 21"	



Digitally signed by Jim Wheeler
Date: 2024.02.27 18:43:17 -05'00'

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91963

DESIGN LOADS: +25.0 P.S.F. & -27.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -40.5 P.S.F.

Unless Stated Otherwise
TOLERANCES are
.0 = ±.031
.00 = ±.015
.000 = ±.005
.0000 = ±.001
Degrees = ±1/2°
Unless Stated Otherwise
DIMENSIONS ARE IN INCHES.



8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

MANUFACTURING PRODUCT CODE PAN-2F153			
PART NO.: N/A			
WINDLOAD RATING W4 DP25			
DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)			
DRAWN BY: RJK	DATE: 7/15/14	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 7/22/14	SHEET 1 OF 4	
DWG. NO.: 104946-A/B		VER: IBC	

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'CLASSIC' RAISED PANEL EMBOSS DOORS									'CARRIAGE HOUSE' RAISED PANEL DOORS			SHEET: 2 OF 4		REVISIONS						
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS	MODELS	25 GA	25 GA INS	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION			
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V	CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV	03	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.			
IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--	HOLMES 'ARTISTRY'	AR5S	AR5SV									
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--	IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV									
SHORT PANEL					LONG PANEL				SHORT PANEL											
* - MODEL 4F IS FLUSH																				

IMPACT-RESISTANT CONSTRUCTION:
SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL INJECTION-MOLDED POLYCARBONATE FRONT FRAME AND GLAZING IS GE LEXAN SLX2432T, AN APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606 AND AN APPROVED C1 PLASTIC IN ACCORDANCE WITH FBC 2612. THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE AND INTERNATIONAL BUILDING CODE AND IS LARGE- AND SMALL-MISSILE IMPACT RESISTANT.

SECTION B-B (IMPACT-RESISTANT GLAZING OPTION)

DETAIL 'D'

DETAIL 'D'

OPTIONAL DECORATIVE SNAP-IN INSERT.

IMPACT RESISTANT ONE-PIECE INJECTION MOLDED GE LEXAN SLX2432T FRONT FRAME & GLAZING.

MULTIPURPOSE HIGH BOND TAPE (BETWEEN FRAME AND FACADE).

DECORATIVE FRONT FACADE.

STRUCTURAL SILICONE SEALANT (BETWEEN STEEL SKIN AND FRAME).

POLYSTYRENE RETAINER FASTENED TO FRAME WITH (10) #8 x 3/4" PAN HEAD MACHINE SCREWS.

IMPACT-RESISTANT ASSEMBLY DETAILS
DRAWING 104946-A

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91963

James D. Wheeler
Professional Engineer
No. 91932
State of Florida
Digitally signed by Jim Wheeler
Date: 2024.02.27 18:43:54 -05'00'

DESIGN LOADS: +25.0 P.S.F. & -27.0 P.S.F. TEST LOADS: +37.5 P.S.F. & -40.5 P.S.F.		MANUFACTURING PRODUCT CODE PAN-2F153	
Unless Stated Otherwise TOLERANCES are .0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2'		PART NO.: N/A	
Clopay CORPORATION 8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853		WINDLOAD RATING W4 DP25	
DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)		DRAWN BY: RJK	
CHECKED BY: SH		DATE: 7/15/14	
DWG. NO.: 104946-A/B		SCALE: NTS	
VER: IBC		SHEET 2 OF 4	
		DWG. SIZE B	

4

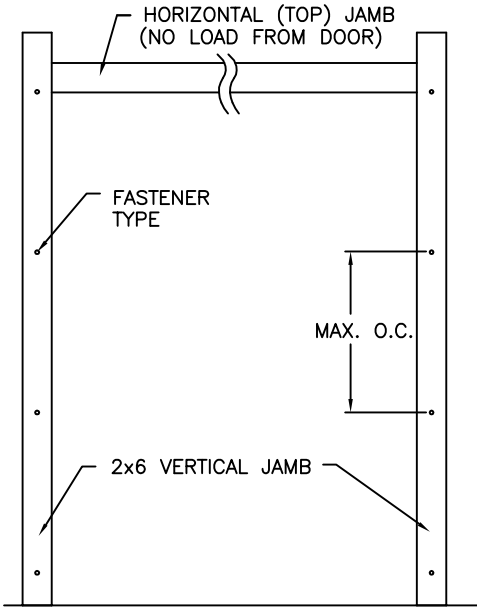
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'CLASSIC' RAISED PANEL EMBOSS DOORS									'CARRIAGE HOUSE' RAISED PANEL DOORS			SHEET: 3 OF 4		REVISIONS						
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS	MODELS	25 GA	25 GA INS	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION			
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V	CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV	03	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.			
IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--	HOLMES 'ARTISTRY'	AR5S	AR5SV									
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--	IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV									
SHORT PANEL					LONG PANEL				SHORT PANEL											
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2" THICK



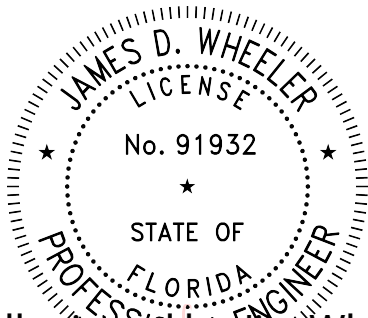
JAMB TO SUPPORTING STRUCTURE ATTACHMENT

- NOTES:
1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE TRACK AND THEN FROM THE TRACK TO THE 2x6 VERTICAL SYP (GRADE #2 OR BETTER) JAMBS. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) JAMB.
 2. EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +225 LB & -225 LB. PER LINEAR FOOT OF JAMB.
 3. ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
 4. A 1/3 STRESS INCREASE FOR WIND LOAD WAS NOT USED IN THE CALCULATION OF ALLOWABLE LOADS FOR ANCHORS AND FASTENERS FOR STEEL, CONCRETE AND MASONRY.

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT
(NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

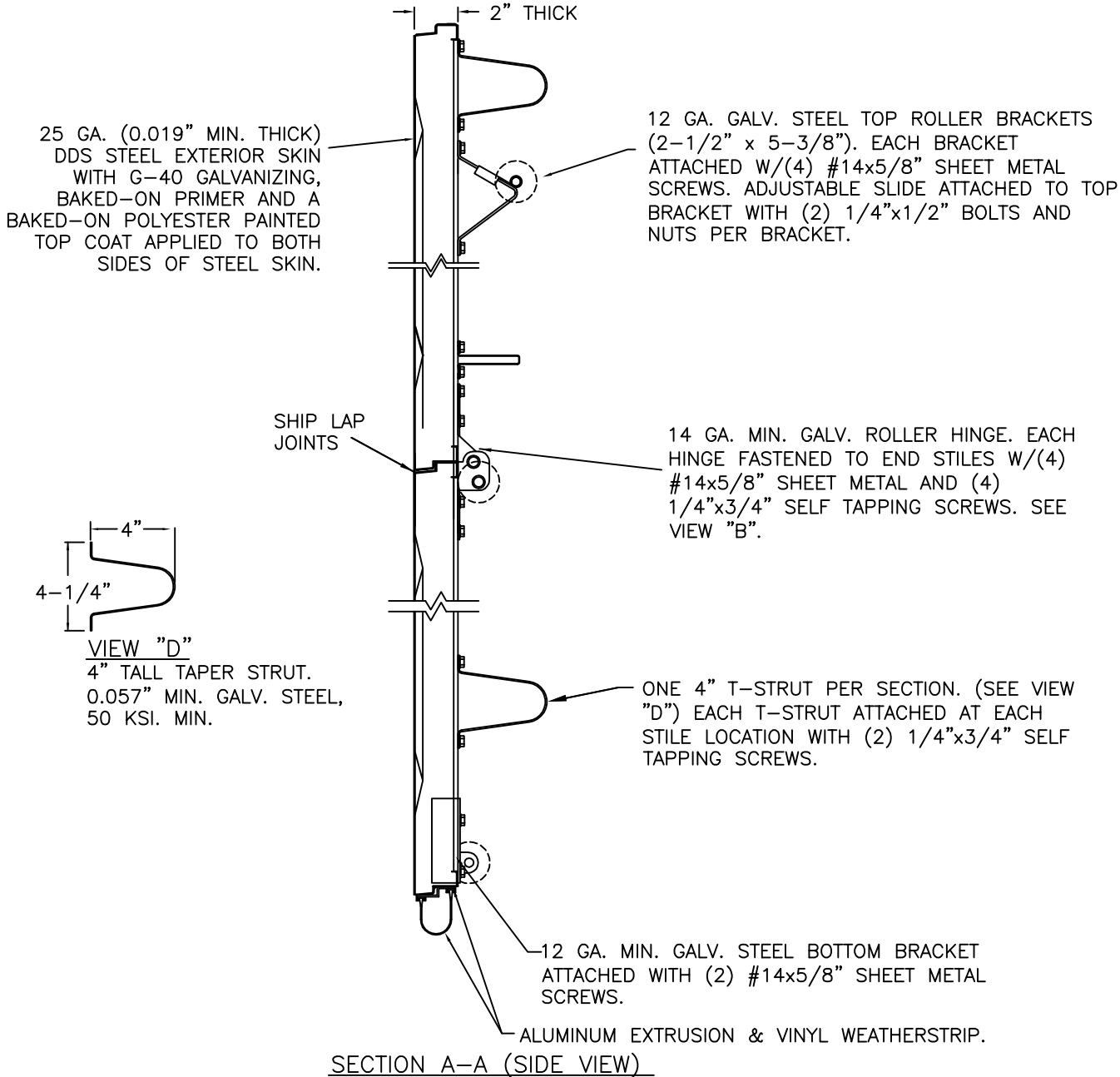
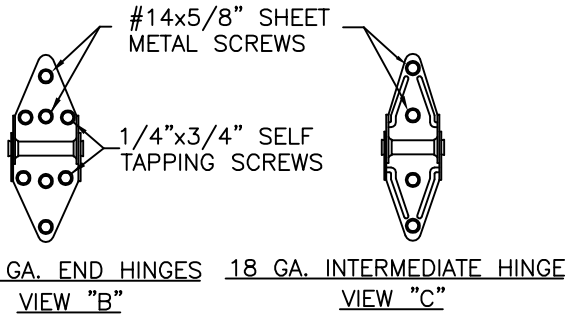
BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
BLOCK WALL	1/4" x 1-1/4" MIN. EMBED TAPCON CONCRETE ANCHOR	8"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	20"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1-1/2" MIN. EMBED SLEEVE ANCHOR	18"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	24"	1" O.D.

* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.



Digitally signed by Jim Wheeler
Date: 2024.02.27 18:44:32 -05'00'

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91963



DESIGN LOADS: +25.0 P.S.F. & -27.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -40.5 P.S.F.

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Clopay
CORPORATION

8585 Duke Boulevard
Mason, OH 45040 USA
Tel. No. 513-770-4800
Fax No. 513-770-4853

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)		WINDLOAD RATING W4 DP25	
DRAWN BY: RJK	DATE: 7/15/14	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 7/22/14	SHEET 3 OF 4	
DWG. NO.: 104946-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

