

4

3

2

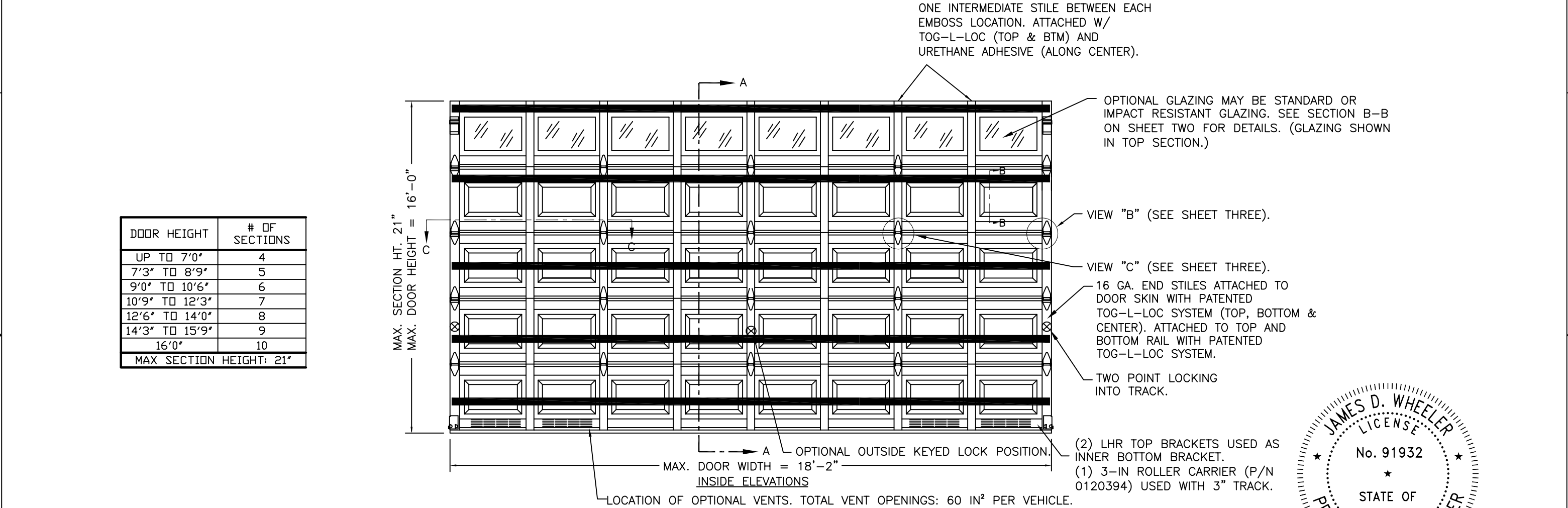
1

'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								

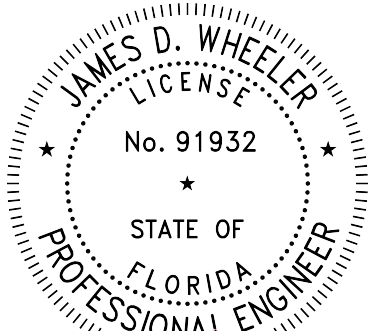
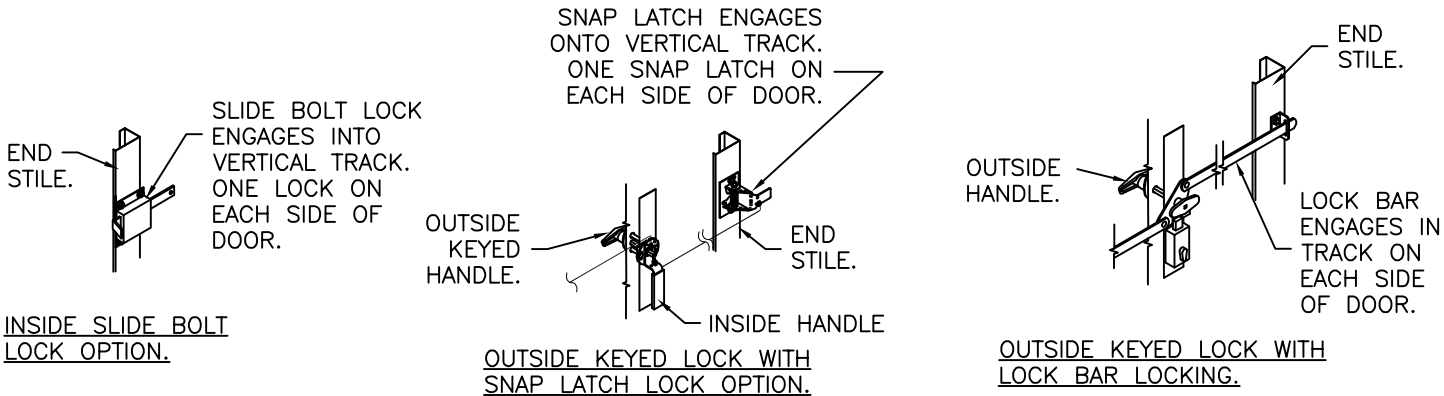
'CARRIAGE HOUSE' RAISED PANEL DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5S, GR5S	GD5SV, GR5SV
HOLMES 'ARTISTRY'	AR5S	AR5SV
IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV
		SHORT PANEL

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 18:40:04 -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.

Clopay
CORPORATION
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	

4

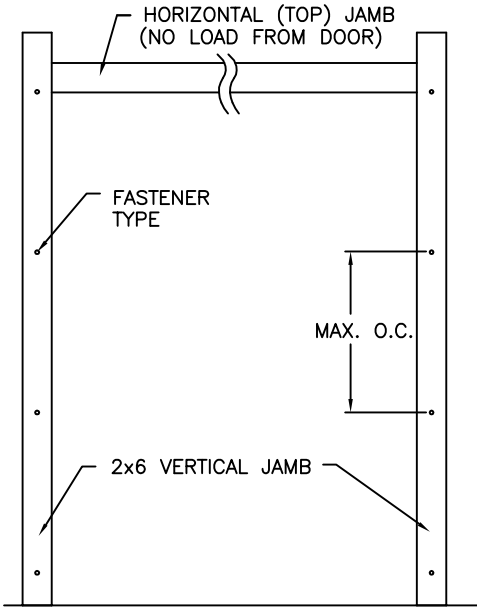
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2

1

'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											
* - MODEL 4F IS FLUSH																				

2" THICK



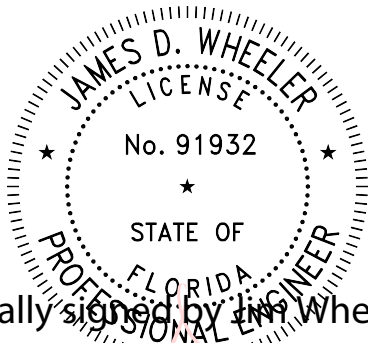
JAMB TO SUPPORTING STRUCTURE ATTACHMENT

- NOTES:
- 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.
 - EACH VERTICAL JAMB SEES A MAXIMUM DESIGN LOAD OF +225 LB & -225 LB. PER LINEAR FOOT OF JAMB.
 - ALL JAMB FASTENERS MAY BE (BUT ARE NOT REQUIRED TO BE) COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
 - 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)

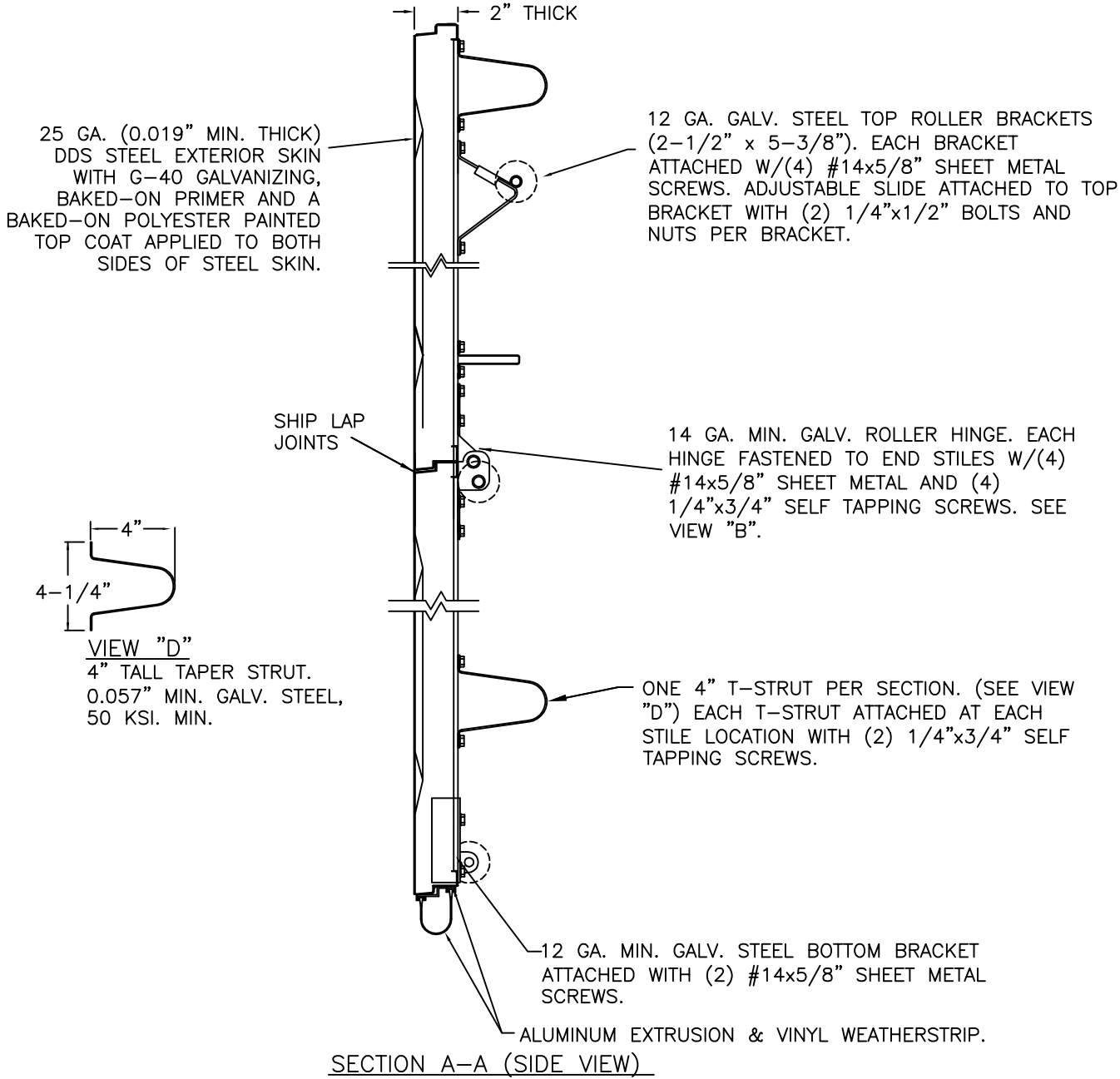
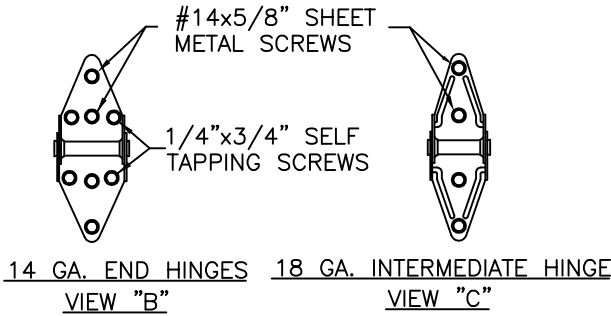
BUILDING TYPE	FASTENER TYPE	MAXIMUM ON-CENTER DISTANCE BETWEEN FASTENERS*	STEEL WASHERS REQUIRED?
BLOCK WALL	1/4" x 1-1/4" MIN. EMBED TAPCON CONCRETE ANCHOR	8"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	20"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1-1/2" MIN. EMBED SLEEVE 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 James D. Wheeler
Date: 2024.02.27 18:41:36 -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
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DIMENSIONS ARE IN INCHES.

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)			
DRAWN BY: RJK	DATE: 7/15/14	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: 7/22/14	SHEET 3 OF 4	SIZE
DWG. NO.: 104946-A/B		VER: IBC	

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

WINDLOAD RATING
W4 DP25

4

3

2

1

SHEET:
4 OF 4

REV. NO. 03
ZONE: -
DATE: -
ECN NO. -
APPVD: -
DESCRIPTION: SEE REVISION HISTORY ON SHEET ONE.

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

MODELS

25 GA

25 GA INS

CLOPAY
'GALLERY'

GD5S,
GR5S

GD5SV,
GR5SV

HOLMES
'ARTISTRY'

AR5S

AR5SV

IDEAL
'CARRIAGE HOUSE'

ED5S

ED5SV

SHORT PANEL

2" TRACK CONFIGURATION.

NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.

DOOR COUNTERBALANCE SYSTEM

13 GA GALV. STEEL FLAG BRACKET ATTACHED TO JAMB WITH (3) 5/16" X 1-5/8" LAG SCREWS AND TO TRACK WITH (2) 1/4" RIVETS.

AS RQD: SPACING NTE 30" O.C.

62"±4"

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.0603".

36"±2"

TYP. 2-1/2" X 12 GA GALV. STEEL TRACK BRACKETS, ATTACHED TO JAMB WITH (1) 5/16" X 1-5/8" LAG SCREW PER TRACK BRACKET.

10"

3-1/2"

OPENING HEIGHT = DOOR HEIGHT

"L"

DOOR HEIGHT

"L"

6'-6" 70"

7'-0" 76"

7'-6" 82"

8'-0" 88"

8'-6" 94"

9'-0" 100"

9'-6" 106"

10'-0" 112"

10'-6" 118"

11'-0" 124"

11'-6" 130"

12'-0" 136"

12'-6" 142"

13'-0" 148"

13'-6" 154"

14'-0" 160"

14'-6" 166"

15'-0" 172"

15'-6" 178"

16'-0" 184"

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

1" DOOR OVERLAP (EACH SIDE)

STOP MOULDING BY DOOR INSTALLER (TO SUIT).

2x6 SYP WOOD JAMB. SEE "JAMB PREPARATION NOTE".

16 GA. GALV. STEEL END STILE.

20 GA. MIN. GALV. STEEL INTER. STILE.

18 GA. GALV. STEEL INTER. HINGE FASTENED TO CENTER STILE W/(4) EACH #14x5/8" SHEET METAL SCREWS.

7/16" I.D. ROUND PUSH NUT FASTENER.

14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS AND (4) 1/4" SELF TAPPING SCREWS PER END HINGE.

2" DIA. 7-1/2" LONG STEM, 10 BALL STEEL ROLLER WITH STEEL OR NYLON TIRE.

2-1/2" X 12 GA GALV. STEEL TRACK BRACKETS FASTENED TO WOOD JAMBS WITH 5/6" X 1-5/8" LAG SCREWS NOT TO EXCEED 14" ON-CENTER. MIN. OF (9) LAG SCREWS REQUIRED PER JAMB.

2" GALV. STEEL TRACK FASTENED TO 12 GA GALV STEEL TRACK BRACKETS WITH EITHER (2) 1/4" DIA. RIVETS OR (1) 1/4" X 5/8" BOLT & NUT PER TRACK BRACKET.

SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS.

DOUBLE TRACK LOW HEADROOM OPTION (AVAIL. FOR BOTH 2" AND 3" TRACK)

DOUBLE HORIZONTAL TRACK.

3" TRACK CONFIGURATION.

NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.

3" GALV. TAPERED STEEL TRACK AND ANGLE. TRACK THICKNESS: 0.101". ANGLE THICKNESS: 0.080". MIN. ANGLE DIMENSIONS 3-1/4" x 2-7/8".

VERTICAL/HORIZONTAL TRACK JUNCTION. TWO 1/4" BOLTS & NUTS FOR EACH TRACK.

14" MAXIMUM SPACING FROM LAST MOUNTING SLOT TO TRACK JUNCTION

ADDITIONAL MOUNTING SLOTS SPACED AT 12" CENTERS.

12" ON CENTER

46"

34"

ONE 1/4" TRACK BOLT AND NUT AT EACH MOUNTING SLOT LOCATION.

22"

10"

3-1/2"

HEIGHT = DOOR HEIGHT

OPENING HEIGHT

DOOR HEIGHT

VERTICAL TRACK LENGTH

7'-0" 72"

8'-0" 84"

9'-0" 96"

10'-0" 108"

12'-0" 132"

14'-0" 156"

16'-0" 180"

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

1" DOOR OVERLAP (EACH SIDE)

STOP MOULDING BY DOOR INSTALLER (TO SUIT).

2x6 SYP WOOD JAMB. SEE "JAMB PREPARATION NOTE".

16 GA. GALV. STEEL END STILE.

18 GA. GALV. STEEL DOUBLE END STILE.

20 GA. MIN. GALV. STEEL INTER. STILE.

18 GA. GALV. STEEL INTER. HINGE FASTENED TO CENTER STILE W/(4) EACH #14x5/8" SHEET METAL SCREWS.

7/16" I.D. ROUND PUSH NUT FASTENER.

14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS AND (2) 1/4" SELF TAPPING SCREWS PER END HINGE.

3" DIA. 8-1/2" LONG STEM BALL BEARING STEEL ROLLER.

3-1/4" x 2-7/8" MIN. x 0.080" TAPERED ANGLE. SEE LAG BOLT MOUNTING BELOW.

0.101" THICK 3" GALV. STEEL TRACK FASTENED TO TAPERED ANGLE. TRACK ATTACHED TO TAPERED ANGLE WITH ONE 1/4"x5/8" BOLT & NUT AT EACH MOUNTING SLOT.

SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

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

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.0000 = ±.001

Degrees = ±1/2°

Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

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 4 OF 4

VER: IBC

DWG. NO.: 104946-A/B

ONE 5/16" x 1-5/8" LAG SCREW SPACED AT THE SAME DISTANCES AS THE TRACK BOLTS (I.E. 3-1/2", 10", 22", 34", 46", ETC.). ADDITIONAL LAG SCREWS LOCATED AT 16", 28", & 40" FROM BOTTOM. TWO LAG SCREWS ALSO LOCATED ABOVE VERTICAL/HORIZONTAL TRACK JUNCTION.

James D. Wheeler

License No. 91932

State of Florida

Professional Engineer

Digitally signed by James D. Wheeler

Date: 2024.02.27 18:42:10 -05'00'

DESIGN ENGINEER:

JAMES D. WHEELER, P.E.

FLORIDA LICENSE No. 91963

FLORIDA PRODUCT APPROVAL 17671