

4

'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	94V	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4F*	--	--	--	--	--	--	--
HOLMES	48B	--	42B	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		

3

SHEET:
1 OF 4

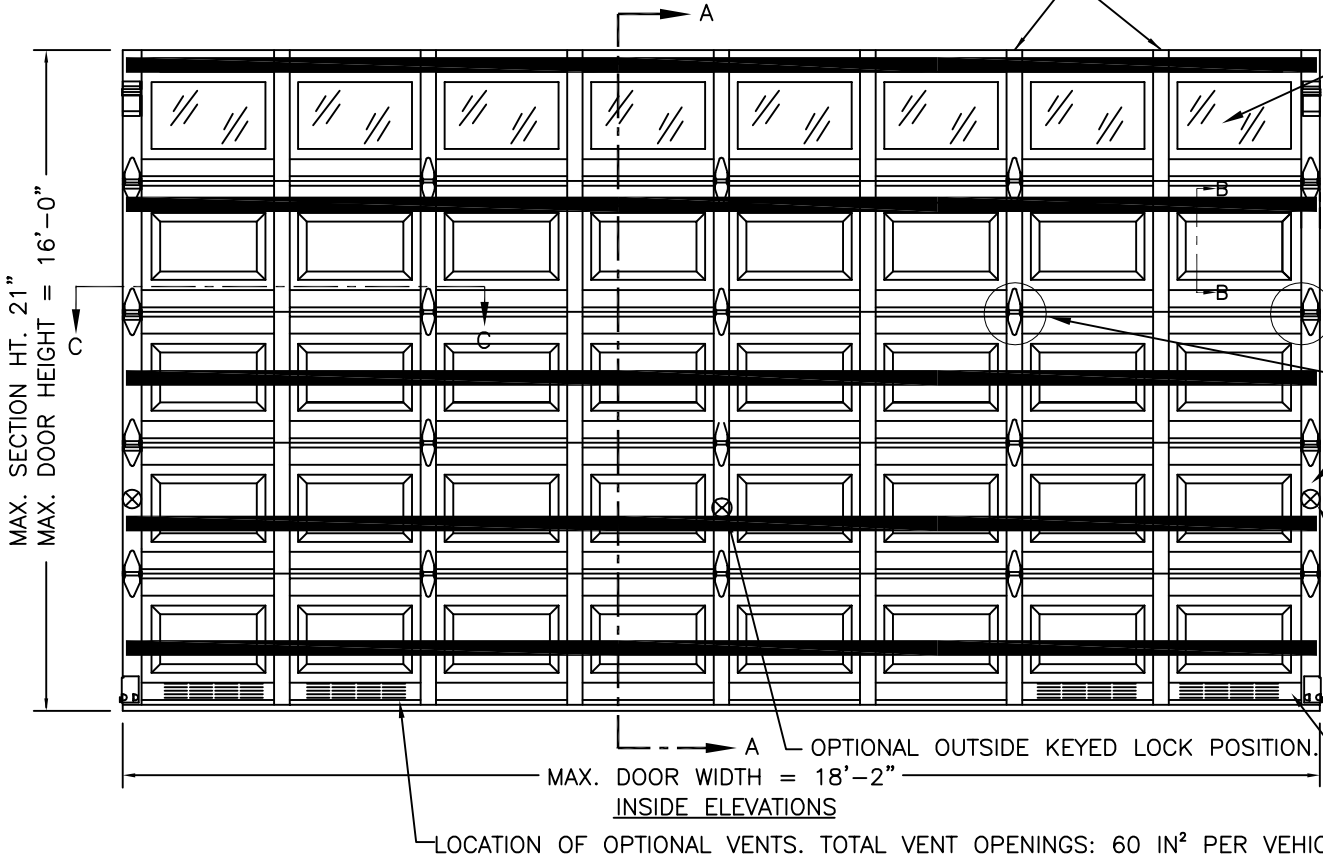
2

1

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.
04	—	8/20/26	—	JDW	UPDATED MODEL TABLE.

'CARRIAGE HOUSE' RAISED PANEL DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5L, GR5L	GD5LV, GR5LV
HOLMES 'ARTISTRY'	AR5L	AR5LV
IDEAL 'CARRIAGE HOUSE'	ED5L	ED5LV
LONG PANEL		

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"	



ONE INTERMEDIATE STILE BETWEEN EACH EMBOSS LOCATION. ATTACHED W/ TOG-L-LOC (TOP & BTM) AND URETHANE ADHESIVE (ALONG CENTER).

OPTIONAL GLAZING MAY BE STANDARD OR IMPACT RESISTANT GLAZING. SEE SECTION B-B ON SHEET TWO FOR DETAILS. (GLAZING SHOWN IN TOP SECTION.)

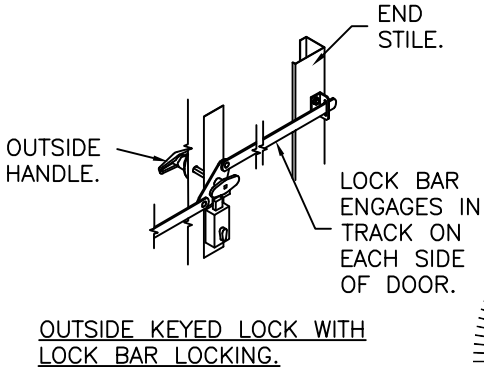
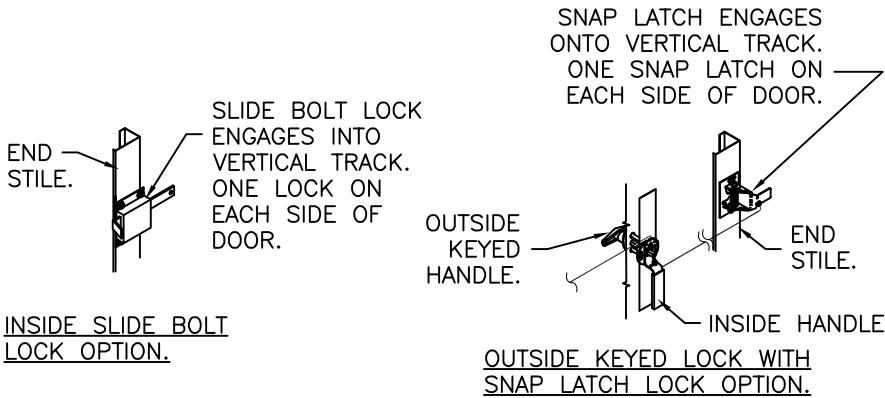
VIEW "B" (SEE SHEET THREE).

VIEW "C" (SEE SHEET THREE).

16 GA. END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM & CENTER). ATTACHED TO TOP AND BOTTOM RAIL WITH PATENTED TOG-L-LOC SYSTEM.

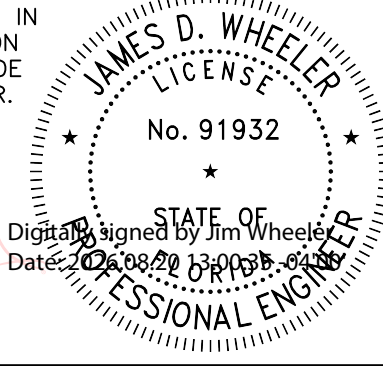
TWO POINT LOCKING INTO TRACK.

(2) LHR TOP BRACKETS USED AS INNER BOTTOM BRACKET.
(1) 3-IN ROLLER CARRIER (P/N 0120394) USED WITH 3" TRACK.



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

Jim Wheeler



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-2F151			
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	

FLORIDA PRODUCT APPROVAL 48397.7

4

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CLOPAY	84A, 94	94V	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4F*	--	--	--	--	--	--	--
HOLMES	48B	--	42B	55S	--	--	--	--
	SHORT PANEL				LONG PANEL			
* - MODEL 4F IS FLUSH								

D

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MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5L, GR5L	GD5LV, GR5LV
HOLMES 'ARTISTRY'	AR5L	AR5LV
IDEAL 'CARRIAGE HOUSE'	ED5L	ED5LV
LONG PANEL		

3

'CARRIAGE HOUSE' RAISED PANEL DOORS		
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HOLMES 'ARTISTRY'	AR5S	AR5SV
IDEAL 'CARRIAGE HOUSE'	ED5S	ED5SV
SHORT PANEL		

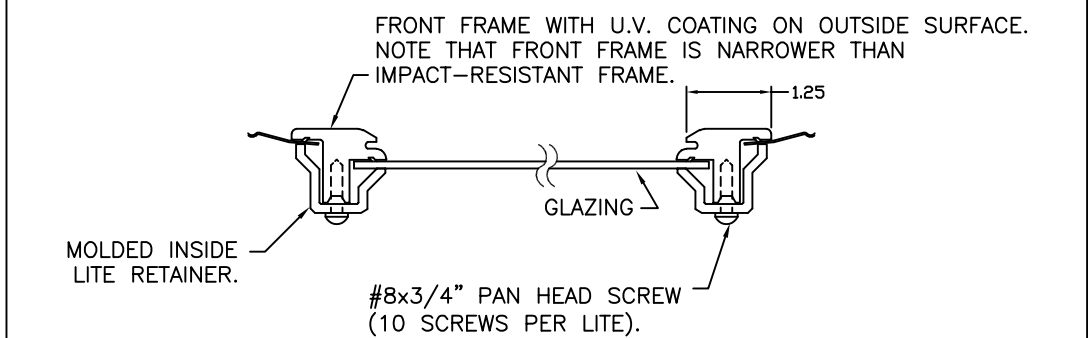
2

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SHEET: 2 OF 4	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	04	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

STANDARD ASSEMBLY CONSTRUCTION:
OPTIONAL DSB OR 1/8" ACYRLIC LITES AVAILABLE. OPTIONAL ACRYLIC GLAZING IS PLASKOLITE OPTIX OR LUCITE CP APPROVED CC2 PLASTIC IN ACCORDANCE WITH IBC/FBC 2606.
THE ENTIRE DOOR ASSEMBLY INSTALLED IN COMPLIANCE WITH THIS SECTION MEETS THE WIND LOAD REQUIREMENTS OF THE FLORIDA BUILDING CODE OR INTERNATIONAL BUILDING CODE BUT DOES NOT MEET THE IMPACT RESISTANT REQUIREMENT FOR WINDBORNE DEBRIS REGIONS (REF. CHAPTER 16 FBC/IBC).

SECTION B-B (NON-IMPACT RESISTANT GLAZING OPTION)



STANDARD ASSEMBLY DETAILS
DRAWING 104946-B

A

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.		MANUFACTURING PRODUCT CODE PAN-2F151	
		PART NO.: N/A	
Unless Stated Otherwise TOLERANCES are .0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2' Unless Stated Otherwise DIMENSIONS ARE IN INCHES.		WINDLOAD RATING W4 DP25	
		DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)	
		DRAWN BY: RJK	DATE: 7/15/14
		CHECKED BY: SH	DATE: 7/22/14
DWG. NO.: 104946-A/B		VER: IBC	

4

'CLASSIC' RAISED PANEL EMBOSS DOORS								
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CLOPAY	84A, 94	94V	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4F*	--	--	--	--	--	--	--
HOLMES	48B	--	42B	55S	--	--	--	--
	SHORT PANEL				LONG PANEL			
* - MODEL 4F IS FLUSH								

D

'CARRIAGE HOUSE' RAISED PANEL DOORS		
MODELS	25 GA	25 GA INS
CLOPAY 'GALLERY'	GD5L, GR5L	GD5LV, GR5LV
HOLMES 'ARTISTRY'	AR5L	AR5LV
IDEAL 'CARRIAGE HOUSE'	ED5L	ED5LV
LONG PANEL		

3

'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		

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SHEET:
3 OF 4

2

1

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

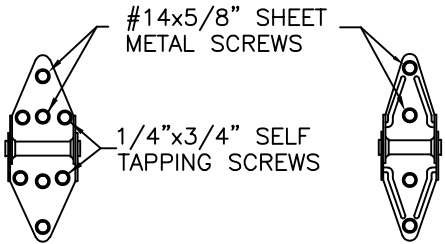
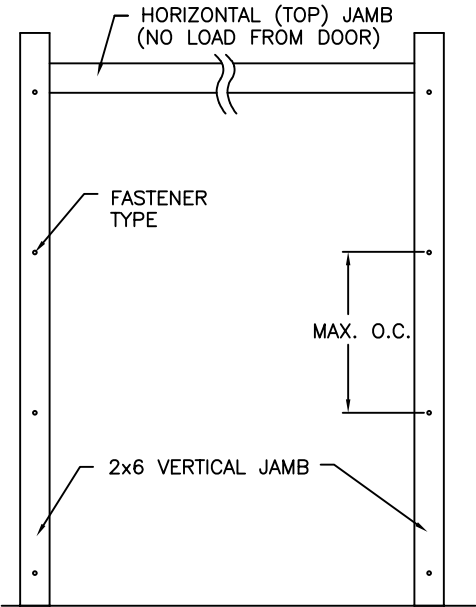
JAMB TO SUPPORTING STRUCTURE ATTACHMENT

- 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.

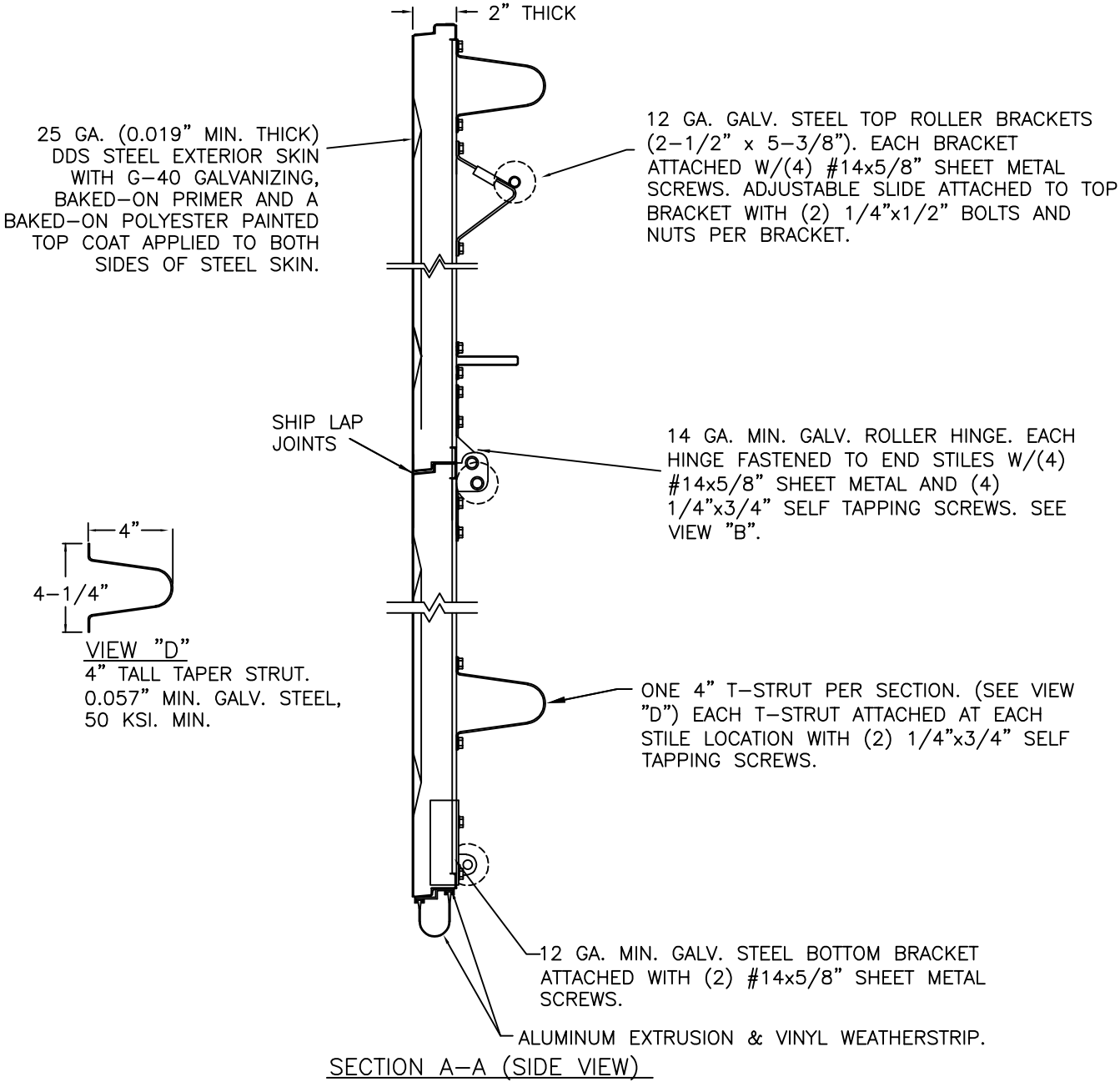
2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT (NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

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.



14 GA. END HINGES 18 GA. INTERMEDIATE HINGE
VIEW "B" VIEW "C"



SECTION A-A (SIDE VIEW)

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
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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)			
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		

FLORIDA PRODUCT APPROVAL 48397.7

4

3

2

1

SHEET:
4 OF 4

REV. NO. 04
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

94V

73, 75

1500, 190

96

96V

75L, 76

76V

IDEAL

4F*

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--

--

--

--

--

--

HOLMES

48B

--

42B

55S

--

--

--

--

SHORT PANEL

LONG PANEL

* - MODEL 4F IS FLUSH

MODELS

25 GA

25 GA INS

CLOPAY
'GALLERY'

GD5L,
GR5L

GD5LV,
GR5LV

HOLMES
'ARTISTRY'

AR5L

AR5LV

IDEAL
'CARRIAGE HOUSE'

ED5L

ED5LV

LONG PANEL

2" TRACK CONFIGURATION.

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.

MODELS

25 GA

25 GA INS

CLOPAY
'GALLERY'

GD5L,
GR5L

GD5LV,
GR5LV

HOLMES
'ARTISTRY'

AR5L

AR5LV

IDEAL
'CARRIAGE HOUSE'

ED5L

ED5LV

LONG PANEL

3" TRACK CONFIGURATION.

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"

OPENING HEIGHT = DOOR 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.

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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.

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Mason, OH 45040 USA
Tel. No. 513-770-4800
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MANUFACTURING PRODUCT CODE
PAN-2F151

PART NO.: N/A

WINDLOAD RATING
W4 DP25

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)

DRAWN BY: RJK
CHECKED BY: SH
DWG. NO.: 104946-A/B

DATE: 7/15/14
DATE: 7/22/14

SCALE: NTS
SHEET 4 OF 4

DWG. SIZE B

VER: IBC

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
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