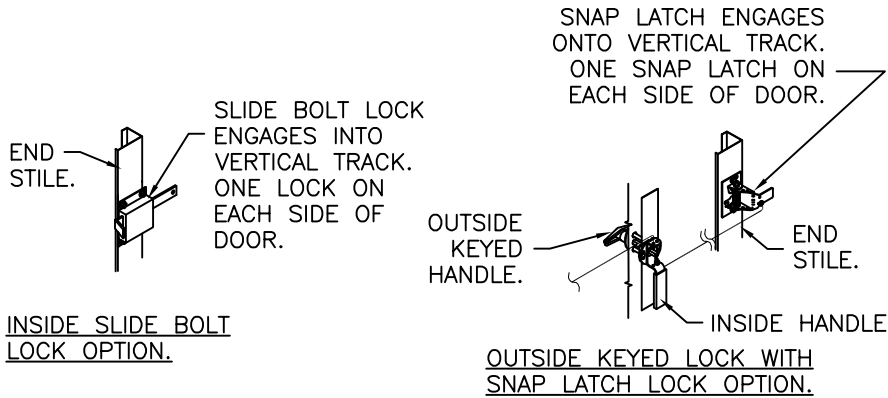


'CLASSIC' RAISED PANEL EMBOSS DOORS								
MODELS	24 GA	24 GA INS	25 GA	25 GA INS	24 GA	24 GA INS	25 GA	25 GA INS
CLOPAY	84A, 94	--	73, 75	1500, 190	96	96V	75L, 76	76V
IDEAL	4RST, 4F*	4RSF	6RST	6RSF	--	--	2RST	--
HOLMES	48, 48B	--	42, 42B	55, 55S	--	--	--	--
SHORT PANEL					LONG PANEL			

* - MODEL 4F IS FLUSH

'CARRIAGE HOUSE' RAISED PANEL SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

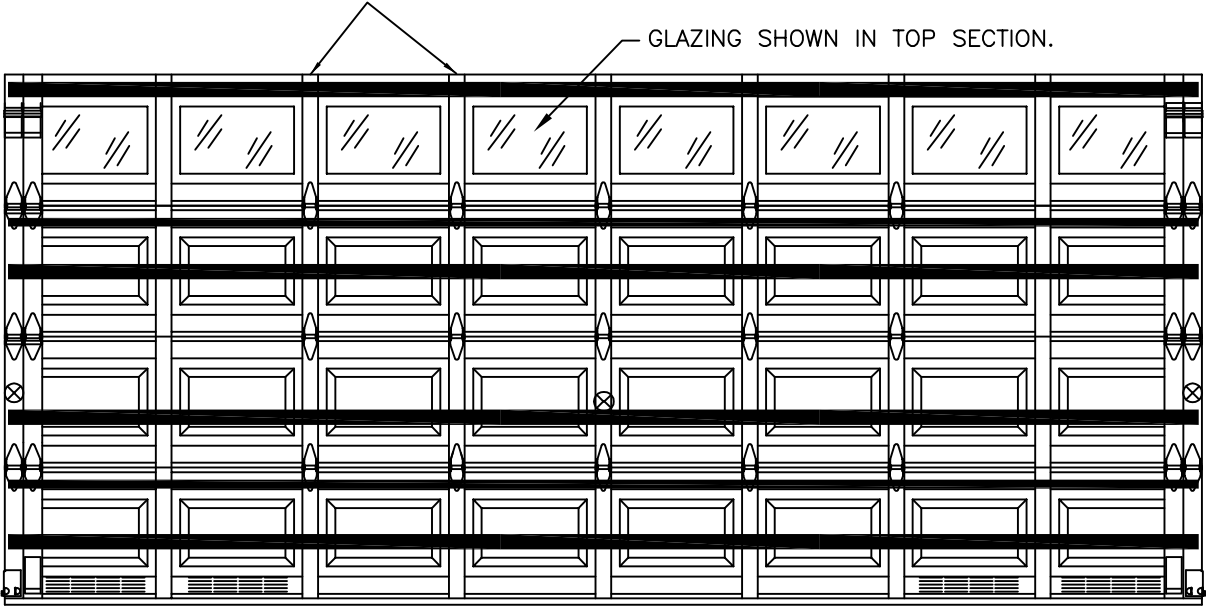


DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

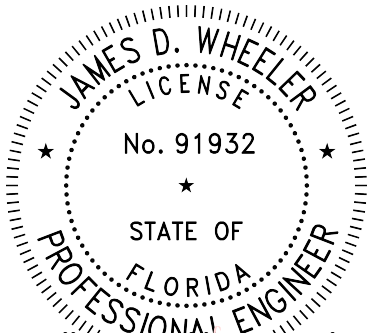
SHEET:
1 OF 5

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
05	-	8/5/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART
06	-	12/27/23	-	JDW	ADDED 24 GA MODELS.
07	-	2/26/24	-	JDW	ADDED MODELS 96 AND 96V.

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



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'	



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Date: 2024.02.27 18:12:28 -05'00'

DESIGN LOADS: +36.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +54.0 P.S.F. & -63.0 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

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)			
DRAWN BY: SH	DATE: 11/6/12	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 11/8/12	SHEET 1 OF 5	
DWG. NO.: 104761-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

WINDLOAD RATING
W6 DP36

'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 SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

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.

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

IMPACT-RESISTANT ASSEMBLY DETAILS
DRAWING 104761-A

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

James D. Wheeler
Professional Engineer
No. 91932
State of Florida
Digitally signed by James D. Wheeler
Date: 2024.02.27 18:13:10 -05'00'

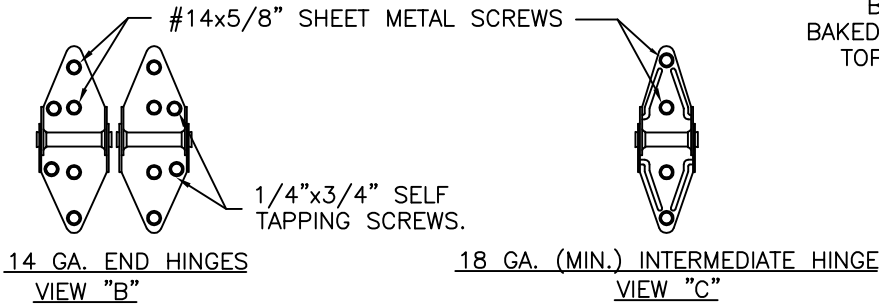
SHEET: 2 OF 4	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	07	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

DESIGN LOADS: +36.0 P.S.F. & -42.0 P.S.F. TEST LOADS: +54.0 P.S.F. & -63.0 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	
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.		WINDLOAD RATING W6 DP36	
CORPORATION		DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)	
DRAWN BY: SH		DATE: 11/6/12	SCALE: NTS
CHECKED BY: SH		DATE: 11/8/12	SHEET 2 OF 5
DWG. NO.: 104761-A/B		VER: IBC	

'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			

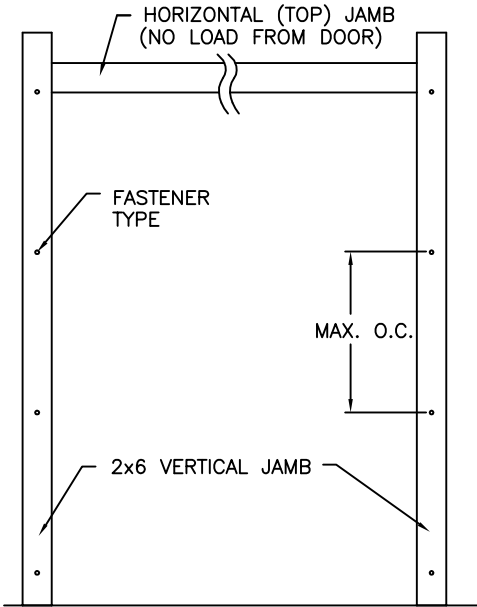
* - MODEL 4F IS FLUSH

'CARRIAGE HOUSE' RAISED PANEL SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S



14 GA. END HINGES
VIEW "B"

18 GA. (MIN.) INTERMEDIATE HINGE
VIEW "C"



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 +342 LB & -378 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	6-3/4"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	7-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	14-3/4"	INCLUDED
4000 PSI MIN. CONCRETE	3/8" X 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	24"	INCLUDED
WOOD FRAME (SYP 0.55 SG)	1/2" x 3" LAG SCREW (ASTM A307, GRADE A) 1-5/8" EMBED INTO STRUCTURE	15-3/4"	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.

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

SHEET: 3 OF 4	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	07	-	-	-	-	SEE REVISION HISTORY ON SHEET ONE.

25 GA. (0.019" MIN. THICK) DDS STEEL EXTERIOR SKIN WITH G-40 GALVANIZING, BAKED-ON PRIMER AND A BAKED-ON POLYESTER PAINTED TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

(2) 12 GA. GALV. STEEL TOP ROLLER BRACKETS (2-1/2" x 5-3/8"). EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS. ADJUSTABLE SLIDE ATTACHED TO TOP BRACKET WITH (2) 1/4"x1/2" BOLTS AND NUTS PER BRACKET.

SHIP LAP JOINTS

14 GA. MIN. GALV. ROLLER HINGE. EACH HINGE FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL AND (2) 1/4"x3/4" SELF TAPPING SCREWS. SEE VIEW "B".

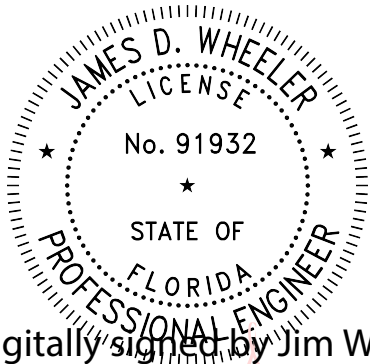
3" TALL X 20 GA. (50 KSI GALV. MIN.) STEEL U-BARS. ONE U-BAR ON EVERY OTHER SECTION. ATTACH WITH TWO 1/4"x3/4" SELF TAPPING SCREWS PER STILE.

ONE 4" T-STRUT PER SECTION. (SEE VIEW "D") EACH T-STRUT ATTACHED AT EACH STILE LOCATION WITH (2) 1/4"x3/4" SELF TAPPING SCREWS.

12 GA. MIN. GALV. STEEL BOTTOM BRACKET ATTACHED WITH (2) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP.

SECTION A-A (SIDE VIEW)



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Date: 2024.02.27 18:13:42 -05'00'

DESIGN LOADS: +36.0 P.S.F. & -42.0 P.S.F.
TEST LOADS: +54.0 P.S.F. & -63.0 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: SH	DATE: 11/6/12	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 11/8/12	SHEET 3 OF 5	
DWG. NO.: 104761-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

WINDLOAD RATING
W6 DP36

43

'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 SHORT EMBOSS DOORS		
MODELS	25 GA	24 GA
CLOPAY 'GALLERY'	GD5S, GR5S	GD4S, GR4S
HOLMES 'ARTISTRY'	AR5S	AR4S
IDEAL 'CARRIAGE HOUSE'	ED5S	ED4S

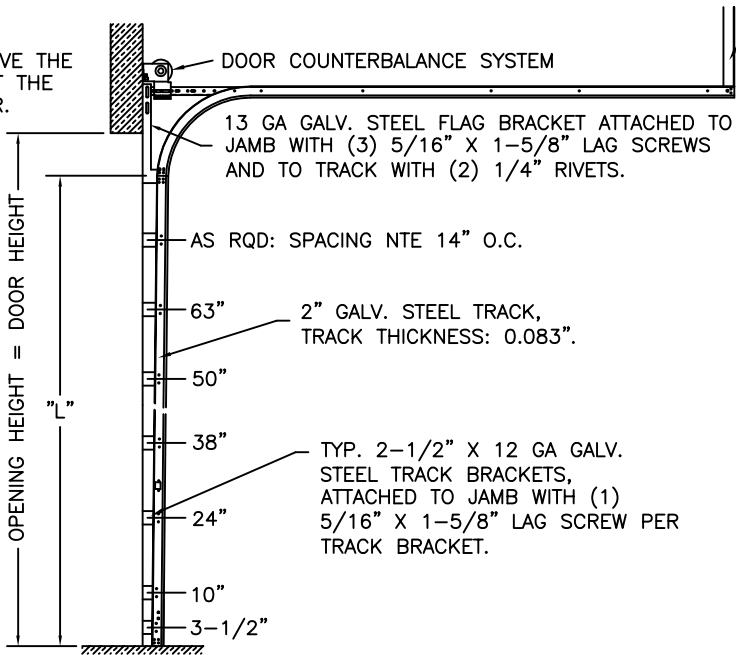
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SHEET:
4 OF 4

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

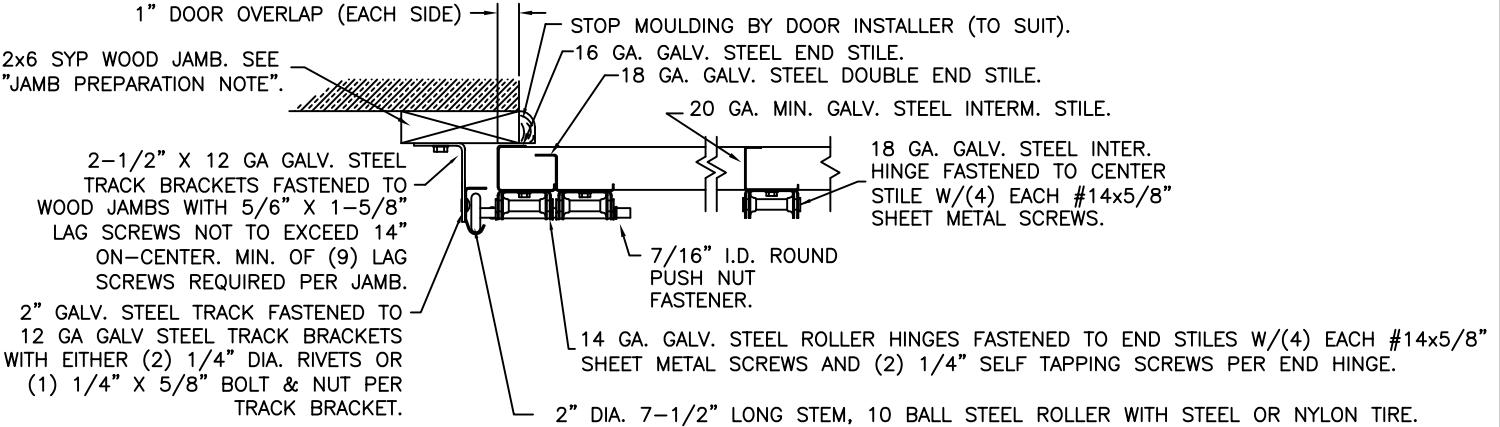
NOTE: TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.

2" TRACK CONFIGURATION.



HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).
JAMB CONFIGURATION
DOORS UP TO 800 LBS.

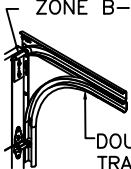
DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"
12'-6"	142"
13'-0"	148"
13'-6"	154"
14'-0"	160"
14'-6"	166"
15'-0"	172"
15'-6"	178"
16'-0"	184"



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. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.



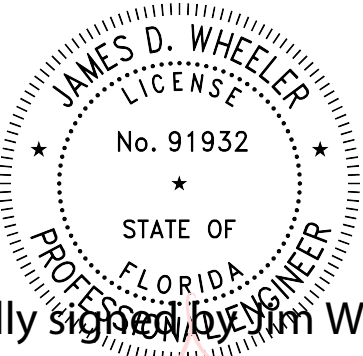
DOUBLE TRACK
LOW HEADROOM OPTION
(AVAIL. FOR BOTH 2" AND 3" TRACK)

DOUBLE HORIZONTAL TRACK.

3" TRACK ALSO AVAILABLE.

DESIGN ENGINEER:
JAMES D. WHEELER, P.E.
FLORIDA LICENSE No. 91932

Digitally signed by Jim Wheeler
Date: 2024.02.27 18:14:17 -05'00'



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TEST LOADS: +54.0 P.S.F. & -63.0 P.S.F.

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Degrees = ±1/2°
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Tel. No. 513-770-4800
Fax No. 513-770-4853

DESCRIPTION: 2" STEEL PAN DOORS 18'2" (SEE TABLE FOR MODELS)			
DRAWN BY: SH	DATE: 11/6/12	SCALE: NTS	DWG. SIZE B
CHECKED BY: SH	DATE: 11/8/12	SHEET 4 OF 4	
DWG. NO.: 104761-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE
PAN-2F153

PART NO.: N/A

WINDLOAD RATING
W6 DP36