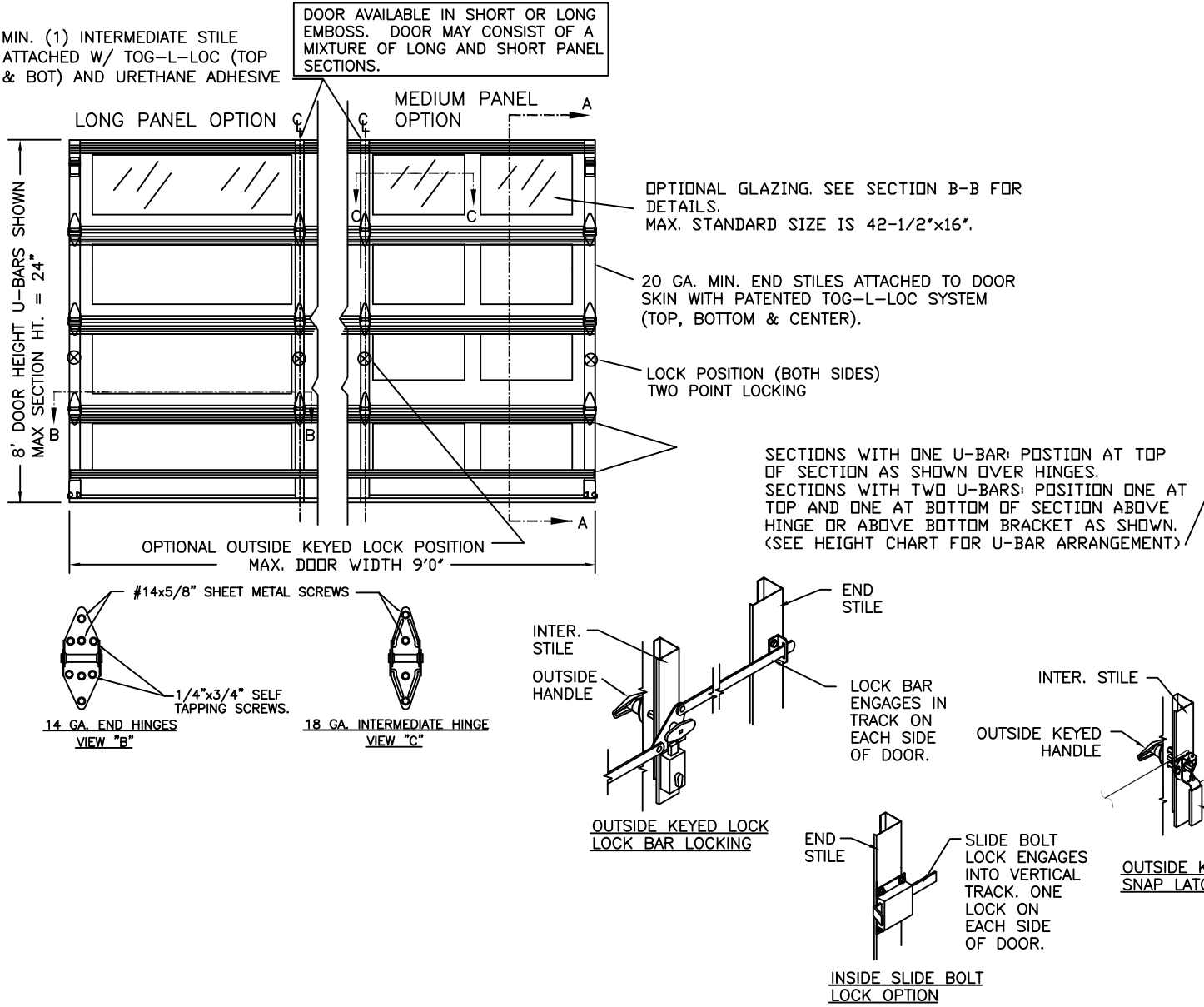


MODELS			
	CARRIAGE HOUSE STD	CARRIAGE HOUSE INS	RECESSED PANEL
CLOPAY	GD4S, GD4L, GR4S, GR4L	GD4SV, GD4LV, GR4SV, GR4LV	BD4E, BR4E, BD4N, BR4N, BD4EV, BR4EV, BD4NV, BR4NV
IDEAL	ED4S, ED4L	ED4SV, ED4LV	RR4E, RR4N, RR4EV, RR4NV
HOLMES	AR4S, AR4L	AR4SV, AR4LV	PR4E, PR4N, PR4EV, PR4NV

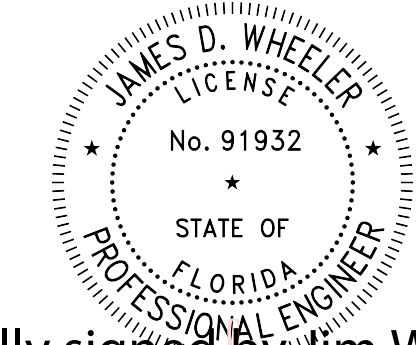
SHEET 1 OF 2

REV	DATE	DESCRIPTION
02	09/26/05	ADDED ROLLER OPTION; REVISED MAX NEGATIVE LOAD
03	02/24/06	UPDATED JAMB BRACKET NOTE
04	04/30/07	ADDED NEW MODEL NUMBERS
05	07/26/07	ADDED UPDATED GLAZING OPTION
06	12/05/07	ADDED LONG WINDOW LITE OPTION
07	01/31/12	REVISED WIND SPEED TABLE FOR ASCE7-10.
08	04/27/12	ADDED IMPACT RESISTANT OPTION.
09	04/10/20	ADDED BRIDGEPORT FAMILY OF MODELS
10	8/7/20	UPDATED TITLE BLOCK AND REMOVED WIND CHART
11	2/12/21	REVISED MODELS.

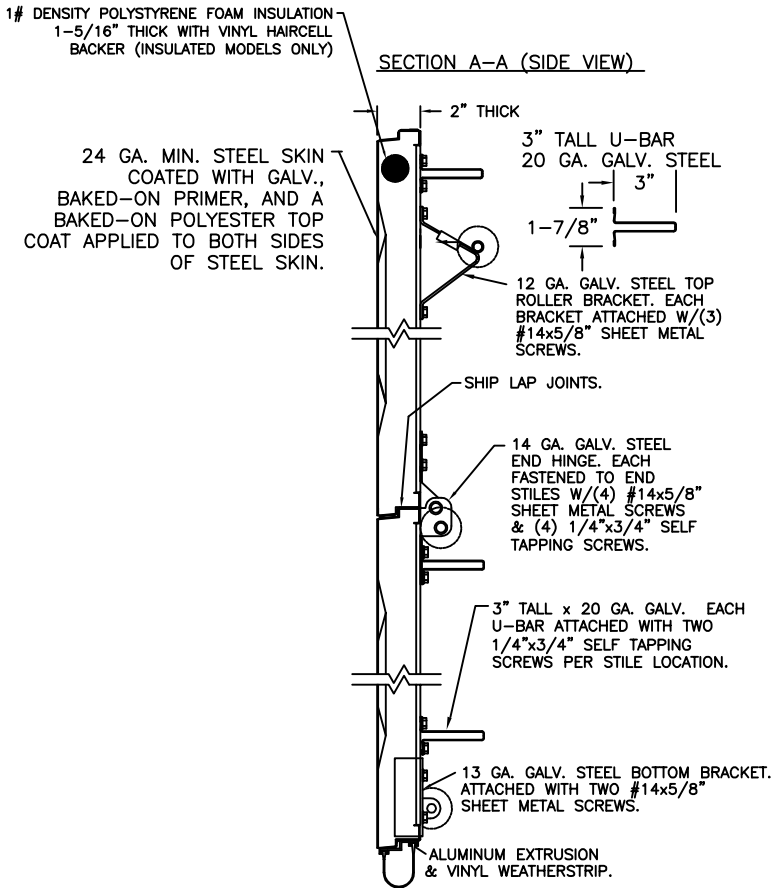


CH & RP 24GA W4-09

NO. OF U-BARS PER SECTION		SECTION NUMBER							
DOOR HEIGHT		1	2	3	4	5	6	7	8
FT.	IN.								
6	0	2	1	1	-	-	-	-	-
6	3	-	-	-	-	-	-	-	-
6	6	-	-	-	-	-	-	-	-
6	9	-	-	-	-	-	-	-	-
7	0	1	1	1	1	-	-	-	-
7	3	1	1	1	2	-	-	-	-
7	6	2	1	1	1	-	-	-	-
7	9	2	1	1	1	-	-	-	-
8	0	2	1	1	1	-	-	-	-
8	3	-	-	-	-	-	-	-	-
8	6	-	-	-	-	-	-	-	-
8	9	1	1	1	1	1	-	-	-
9	0	1	1	1	1	2	-	-	-
9	3	2	1	1	1	1	-	-	-
9	6	2	1	1	1	1	-	-	-
9	9	2	1	1	1	1	-	-	-
10	0	2	1	1	1	1	-	-	-
10	3	-	-	-	-	-	-	-	-
10	6	1	1	1	1	1	1	-	-
10	9	1	1	1	1	1	2	-	-
11	0	2	1	1	1	1	1	-	-
11	3	2	1	1	1	1	1	-	-
11	6	2	1	1	1	1	1	-	-
11	9	2	1	1	1	1	1	-	-
12	0	2	1	1	1	1	1	-	-
12	3	1	1	1	1	1	1	1	-
12	6	1	1	1	1	1	1	2	-
12	9	2	1	1	1	1	1	1	-
13	0	2	1	1	1	1	1	1	-
13	3	2	1	1	1	1	1	1	-
13	6	2	1	1	1	1	1	1	-
13	9	2	1	1	1	1	1	1	-
14	0	2	1	1	1	1	1	1	-
14	3	1	1	1	1	1	1	1	1
14	6	1	1	1	1	1	1	1	2
14	9	2	1	1	1	1	1	1	1
15	0	2	1	1	1	1	1	1	1
15	3	2	1	1	1	1	1	1	1
15	6	2	1	1	1	1	1	1	1
15	9	2	1	1	1	1	1	1	1
16	0	2	1	1	1	1	1	1	1



Digitally signed by Jim Wheeler
Date: 2024.05.01 12:19:27 -04'00'



SEE SHEET TWO FOR
IMPACT RESISTANT CONSTRUCTION DETAIL "A"
AND STANDARD CONSTRUCT DETAIL "B";
TRACK AND JAMB DETAILS.



CLOPAY CORPORATION
8585 DUKE BLVD.
MASON, OH 45040
(513) 770-4800

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MANUFACTURING PRODUCT CODE		WINDLOAD RATING	MAX. DOOR SIZE:
MPC: PAN-2F441		W4	9'W x 16'H
DATE:	5/31/05	DESCRIPTION: 9'W CARRIAGE HOUSE & RECESSED PANEL +25/-32	
DRAWN BY:	RJK	B	DRAWING NUMBER: 103486-A/B
CHECKED BY:			

MODELS			
	CARRIAGE HOUSE STD	CARRIAGE HOUSE INS	RECESSED PANEL
CLOPAY	GD4S, GD4L, GR4S, GR4L	GD4SV, GD4LV, GR4SV, GR4LV	BD4E, BR4E, BD4N, BR4N, BD4EV, BR4EV, BD4NV, BR4NV
IDEAL	ED4S, ED4L	ED4SV, ED4LV	RR4E, RR4N, RR4EV, RR4NV
HOLMES	AR4S, AR4L	AR4SV, AR4LV	PR4E, PR4N, PR4EV, PR4NV

SHEET 2 OF 2

REV	DATE	DESCRIPTION
11	--	SEE REVISION HISTORY ON SHEET ONE.

IMPACT RESISTANT ASSEMBLY DETAILS
DRAWING 103486-A

SECTION C-C (IMPACT-RESISTANT OPTION)

IMPACT-RESISTANT CONSTRUCTION:
SOLID DOORS (NO GLAZING) ARE IMPACT-RESISTANT. 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 MEETS THE IMPACT-RESISTANT REQUIREMENTS (REF. CHAPTER 16 FBC/IBC).

STANDARD ASSEMBLY DETAILS
DRAWING 103486-B

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

FRONT FRAME WITH U.V. COATING ON OUTSIDE SURFACE.

MOLDED INSIDE LITE RETAINER.

GLAZING

#8x3/4" PAN HEAD SCREW.

STANDARD ASSEMBLY CONSTRUCTION:
OPTIONAL DSB OR 1/8" ACRYLIC 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).

VERTICAL JAMB ATTACHMENT (WOOD FRAME BUILDINGS):
1/2"x3" LAG SCREWS ON 24" CENTERS. 1" O.D. WASHER REQUIRED. LAG SCREWS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

PREPARATION OF JAMBS BY OTHERS.

2x6 YELLOW PINE JAMB

STOP MOULDING BY DOOR INSTALLER (TO SUIT)

20 GA. MIN. GALV. STEEL END STILE

20 GA. GALV. STEEL INTER. STILE

12 GA. GALV. STEEL TRACK BRACKETS FASTENED TO WOOD JAMB WITH ONE 5/16"x1-5/8" LAG SCREW PER TRACK BRACKET.

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

14 GA. GALV. STEEL ROLLER HINGES FASTENED TO END STILES EACH W/(4) #14x5/8" SHEET METAL SCREWS AND (4) 1/4"x3/4" SELF TAPPING SCREWS PER END HINGE.

2" GALV. STEEL TRACK FASTENED TO 12 GA. GALV. STEEL TRACK BRACKETS. TRACK ATTACHED TO EACH BRACKET WITH ONE 1/4"x5/8" BOLT & NUT OR TWO 1/4" DIA. RIVETS.

2" 10 BALL SHORT STEM STEEL ROLLER WITH STEEL OR NYLON TIRE.

PREPARATION OF JAMBS BY OTHERS.

JAMB CONFIGURATION SECTION B-B

VERTICAL JAMB ATTACHMENT (C-90 BLOCK OR 2,000 PSI MIN. CONCRETE COLUMN): 3/8"x4" SLEEVE ANCHOR BOLTS ON 24" CENTERS (BOTH C-90 BLOCK OR 2,000 PSI MIN. CONCRETE) OR 1/4"x4" TAPCON SCREWS ON 24" CENTERS (2,000 PSI MIN. CONCRETE). WASHERS INCLUDED WITH SLEEVE ANCHORS, 1" O.D. WASHERS REQUIRED WITH TAPCONS. ANCHORS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

NOTE: 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.

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

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT)

8" TALL DOORS AND UNDER

13 GA. GALV. STEEL FLAG BRACKET. EACH FASTENED TO WOOD JAMB WITH (3) 5/16"x1-5/8" WOOD LAG SCREWS.

2" GALV. STEEL TRACK, MIN. TRACK THICKNESS: .060"

TYP. 2-1/2"x12 GA. GALV. STEEL TRACK BRACKET. (4) TRACK BRACKETS PER SIDE.

DOOR HEIGHT	"L"
6'-6"	70"
7'-0"	76"
7'-6"	82"
8'-0"	88"

NOTE: DOUBLE TRACK LOW HEADROOM AVAILABLE. 3" TRACK AVAILABLE AS NEEDED.

NOTE: FOR DOORS OVER 12'-0" HIGH, TRACK CONFIGURATION SHALL NOT EXCEED MAXIMUM SPACING PROVIDED. CONSULT FACTORY FOR MORE DETAIL IF RQD.

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT)

DOORS OVER 8' TALL

13 GA. GALV. STEEL FLAG BRACKET. EACH FASTENED TO WOOD JAMB WITH (3) 5/16"x1-5/8" LAG SCREWS.

2" GALV. STEEL TRACK, TRACK THICKNESS: .060" MIN.

TYP. 2-1/2"x12 GA. GALV. STEEL TRACK BRACKET. (5) TRACK BRACKETS PER SIDE (UP TO 10' HIGH). (8) TRACK BRACKETS PER SIDE (UP TO 12' HIGH). DISTANCE BETWEEN FLAG AND TOP TRACK BRACKET NOT TO EXCEED 30" O.C.

DOOR HEIGHT	"L"
8'-6"	94"
9'-0"	100"
9'-6"	106"
10'-0"	112"
10'-6"	118"
11'-0"	124"
11'-6"	130"
12'-0"	136"

Clopay CORPORATION

DESIGN ENGINEER: JAMES D. WHEELER, P.E.
FLORIDA P.E. #91932

DESIGN LOADS: +25.0 P.S.F. & -32.0 P.S.F.
TEST LOADS: +37.5 P.S.F. & -48.0 P.S.F.

James D. Wheeler
LICENSE
No. 91932
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by James D. Wheeler
Date: 2024.05.01 12:20:03 -04'00'

MANUFACTURING PRODUCT CODE
MPC: PAN-2F441

DATE: 5/31/05

DRAWN BY: RJK

CHECKED BY:

WINDLOAD RATING
W4

MAX. DOOR SIZE:
9'W x 16'H

DESCRIPTION: 9'W CARRIAGE HOUSE & RECESSED PANEL +25/-32

DRAWING NUMBER:
103486-A/B

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FLORIDA PRODUCT APPROVAL 15279