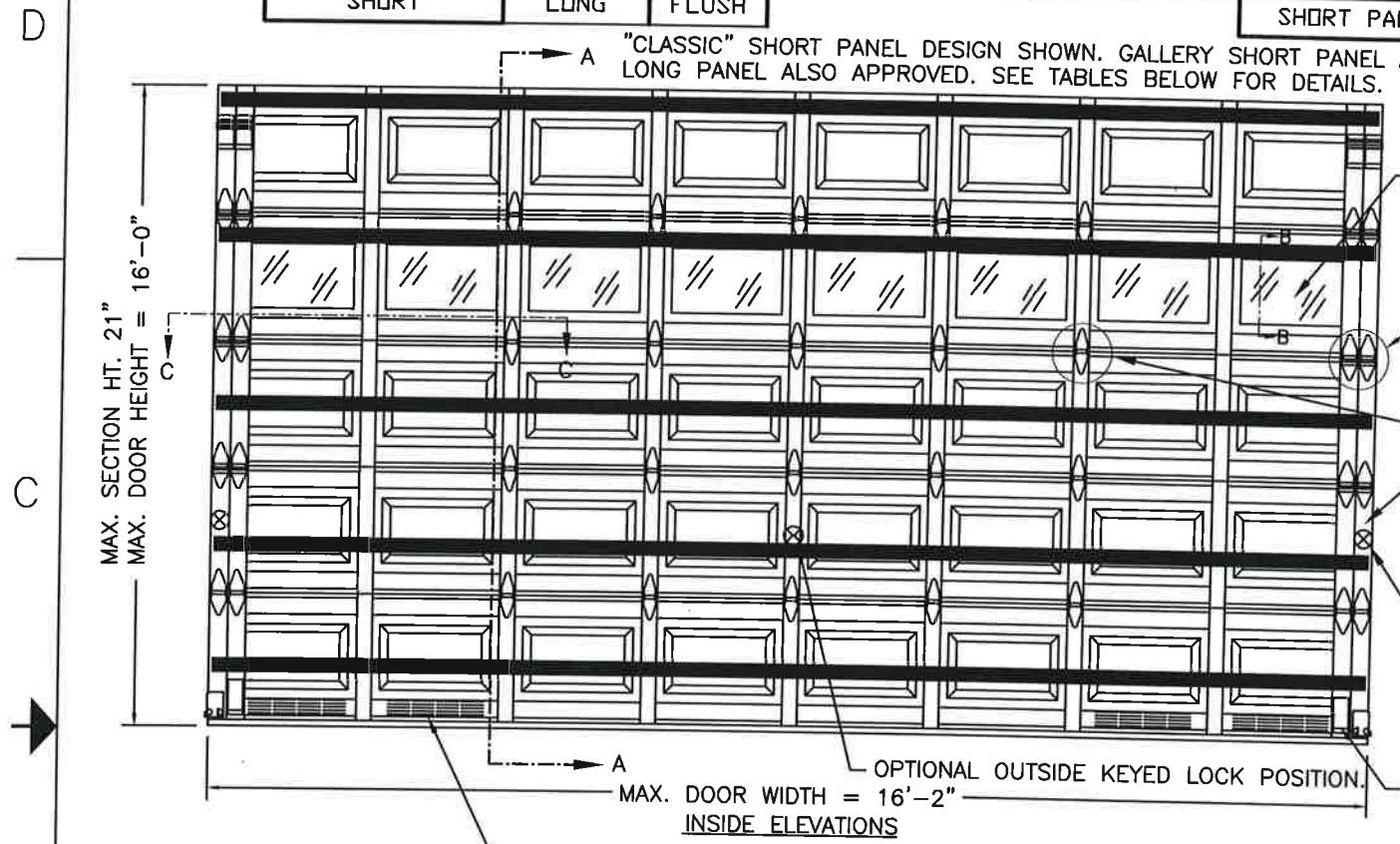


'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	25 GA	25 GA	24 GA
CLOPAY	84A, 94	73, 75	76, 75L	98
IDEAL	4RST	6RST	2RST	4F
HOLMES	48, 48B	42, 42B	--	--
	SHORT	LONG	FLUSH	

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

SHEET:  
1 OF 4

REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
03	-	6/24/13	-	SH	ADDED LONG PANEL OPTION.
04	-	8/4/20	-	SH	UPDATED TITLE BLOCK AND REMOVED WIND CHART



OPTIONAL GLAZING MAY BE STANDARD OR IMPACT RESISTANT GLAZING. ONLY SHORT GLAZING IS APPROVED. SEE SECTION B-B ON SHEET TWO FOR DETAILS. (GLAZING SHOWN IN INTERMEDIATE SECTION.)

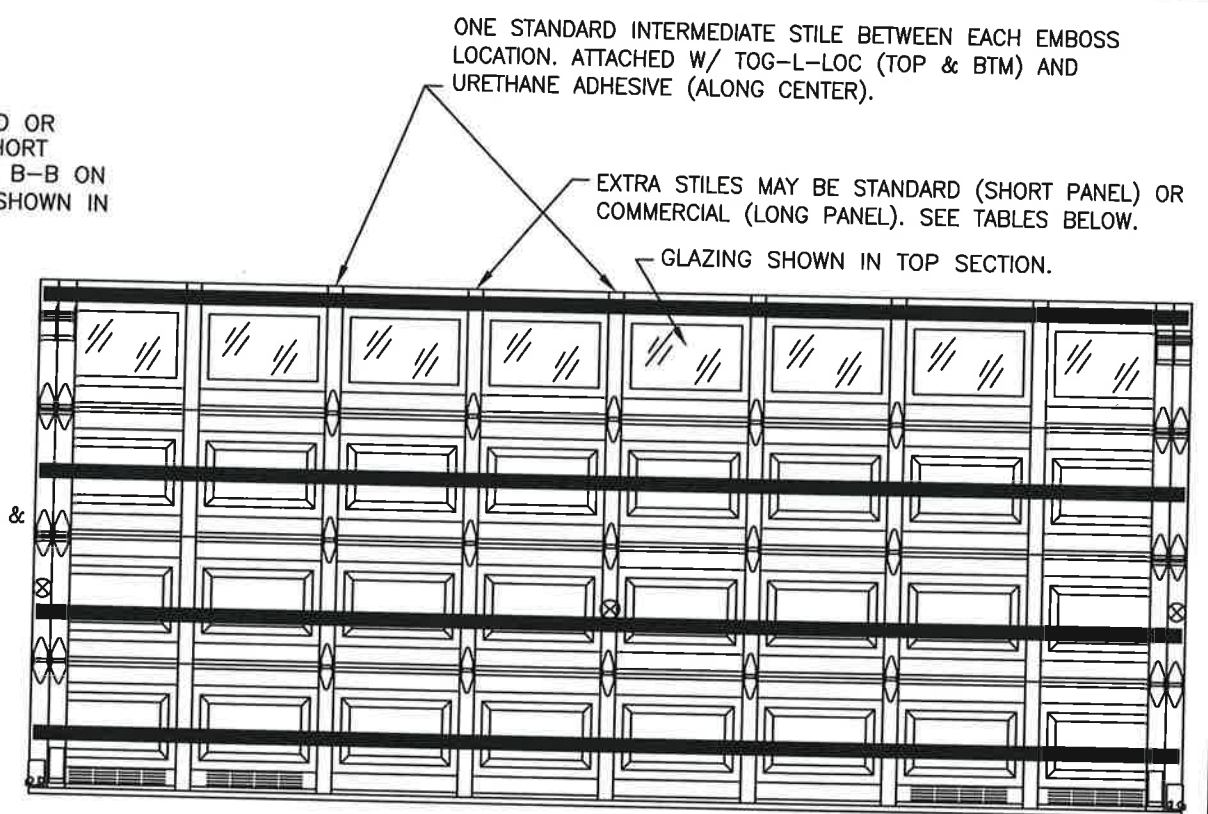
VIEW "B" (SEE SHEET THREE).

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.

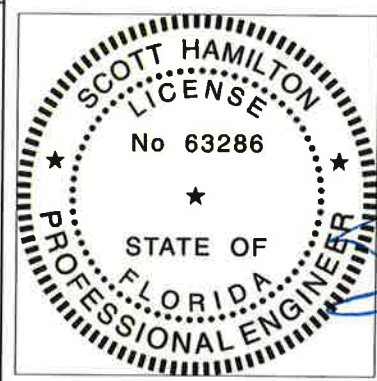


DOOR HEIGHT	# OF SECTIONS
UP TO 7'0"	4
7'3" TO 8'9"	5
9'0" TO 10'6"	6
10'9" TO 12'3"	7
12'6" TO 14'0"	8
14'3" TO 15'9"	9
16'0"	10
MAX SECTION HEIGHT: 21"	

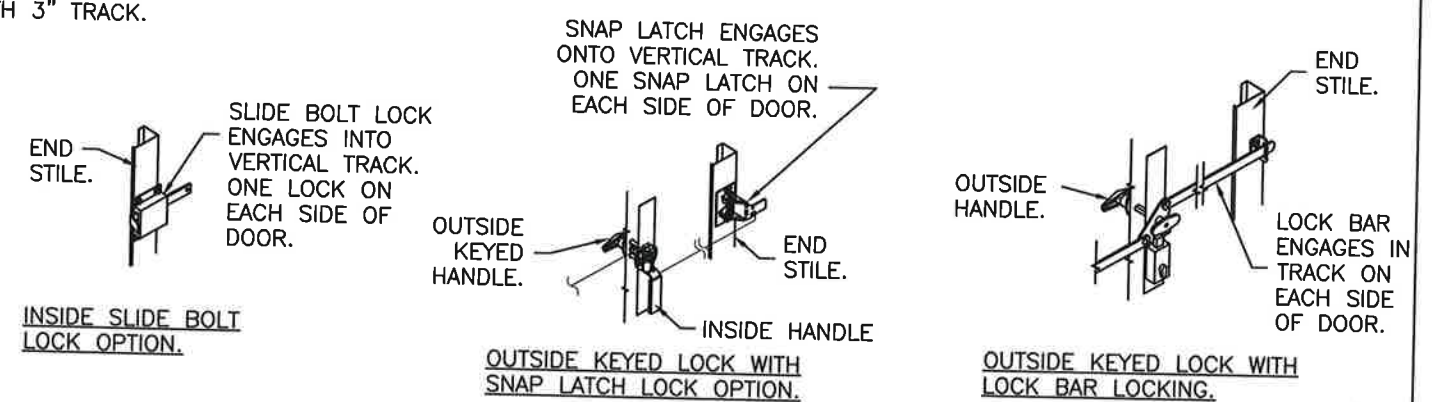
'CLASSIC' RAISED PANEL EMBOSS DOORS				
SHORT PANEL		LONG PANEL		
DOOR WIDTH	# OF INTERM. STILES (PER SECTION)	DOOR WIDTH	# OF STD INTERM. STILES (PER SECTION)	# OF COMM. INTERM. STILES (PER SECTION)
9'2" TO 9'10"	3	9'2" TO 11'2"	1	2
10'0" TO 11'10"	4	11'4" TO 14'10"	2	3
12'0" TO 13'10"	5	15'0" TO 16'2"	3	4
14'0" TO 15'10"	6	SEE NOTE BELOW REGARDING EXTRA STILES ON LONG PANEL DOORS.		
16'0" TO 16'2"	7			

'CARRIAGE HOUSE' RAISED PANEL EMBOSS DOORS	
SHORT PANEL	
DOOR WIDTH	# OF INTERM. STILES (PER SECTION)
9'2" TO 10'0"	3
10'2" TO 11'4"	N/A
11'6" TO 14'6"	5
14'8" TO 16'2"	7

EXTRA STILES FOR LONG-PANEL MODELS. ADDITIONAL 18 GA. COMMERCIAL INTERM. STILES REQUIRED AS NOTED ON THE TABLES ABOVE. THESE COMMERCIAL CENTER STILES ARE ATTACHED MIDPOINT BETWEEN THE EXISTING RESIDENTIAL CENTER STILES. COMMERCIAL CENTER STILES ARE ATTACHED WITH TOG-L-LOC (TOP & BOTTOM) OR (4) 3/16" POP RIVETS OR (4) #8 SHEET METAL SCREWS.



DESIGN ENGINEER:  
SCOTT HAMILTON, P.E.  
FLORIDA LICENSE No. 63286



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"

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

MANUFACTURING PRODUCT CODE  
SHORT PANEL: PAN-2F153  
LONG PANEL: PAN-2F156  
PART NO.: N/A

WINDLOAD RATING  
**W6 DP36T**

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)  
DRAWN BY: SH DATE: 11/19/12 SCALE: NTS DWG. B  
CHECKED BY: SH DATE: 11/20/12 SHEET 1 OF 4 SIZE B  
DWG. NO.: 104710-A/B VER: IBC



'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	25 GA	25 GA	24 GA
CLOPAY	84A, 94	73, 75	76, 75L	98
IDEAL	4RST	6RST	2RST	4F
HOLMES	48, 48B	42, 42B	--	--
	SHORT	LONG	FLUSH	

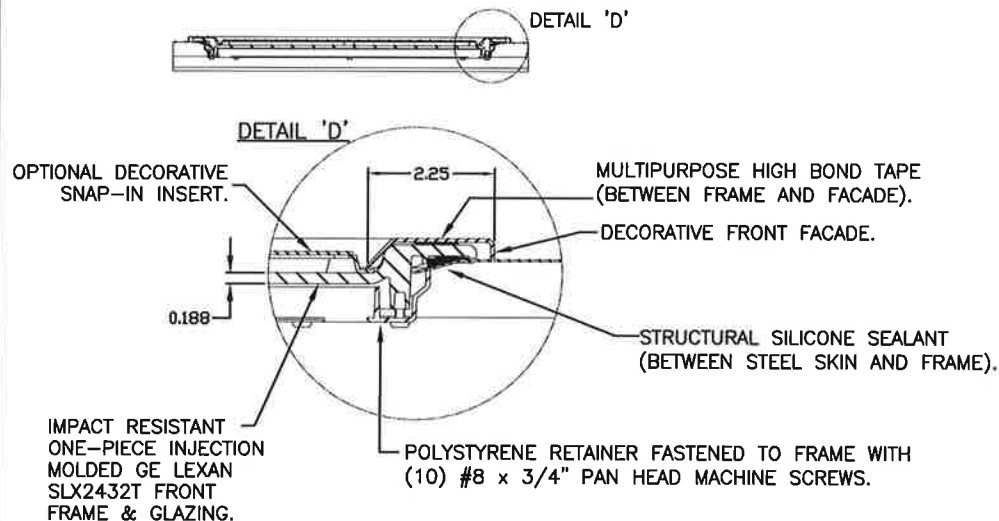
'CARRIAGE HOUSE' RAISED PANEL EMBOSS DOORS	
MODELS	25 GA
CLOPAY 'GALLERY'	GD5S, GR5S
HOLMES 'ARTISTRY'	AR5S
IDEAL 'CARRIAGE HOUSE'	ED5S
	SHORT PANEL

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

#### 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)

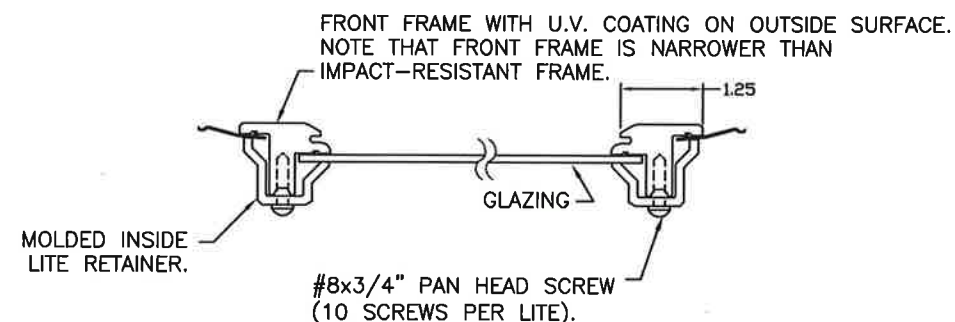


IMPACT-RESISTANT ASSEMBLY DETAILS  
**DRAWING 104710-A**

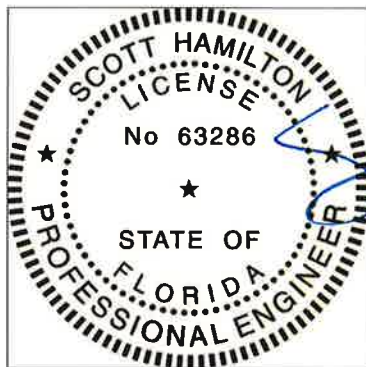
#### STANDARD ASSEMBLY CONSTRUCTION:

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).

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



STANDARD ASSEMBLY DETAILS  
**DRAWING 104710-B**



DESIGN ENGINEER:  
SCOTT HAMILTON, P.E.  
FLORIDA LICENSE No. 63286

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**Clopay**  
CORPORATION  
8585 Duke Boulevard  
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Tel. No. 513-770-4800  
Fax No. 513-770-4853

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)

DRAWN BY: SH	DATE: 11/19/12	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: 11/20/12	SHEET 2 OF 4	SIZE B
DWG. NO.: 104710-A/B	VER: IBC		

MANUFACTURING PRODUCT CODE  
SHORT PANEL: PAN-2F153  
LONG PANEL: PAN-2F156  
PART NO.: N/A

WINDLOAD RATING  
**W6 DP36T**

2 FLORIDA PRODUCT APPROVAL 16546

'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	25 GA	25 GA	24 GA
CLOPAY	84A, 94	73, 75	76, 75L	98
IDEAL	4RST	6RST	2RST	4F
HOLMES	48, 48B	42, 42B	--	--
	SHORT	LONG	FLUSH	

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

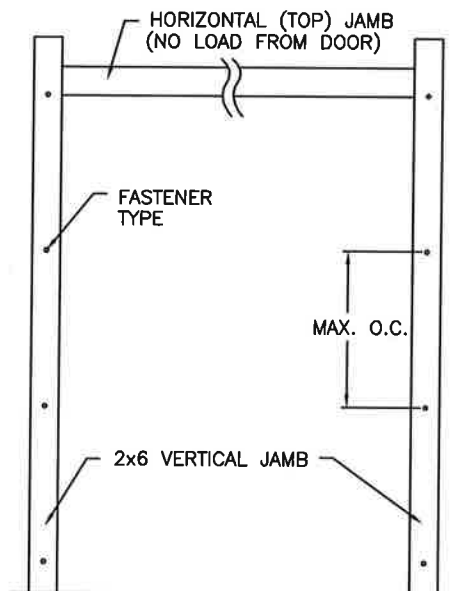
SHEET:  
3 OF 4

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

### 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 +288 LB & -336 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

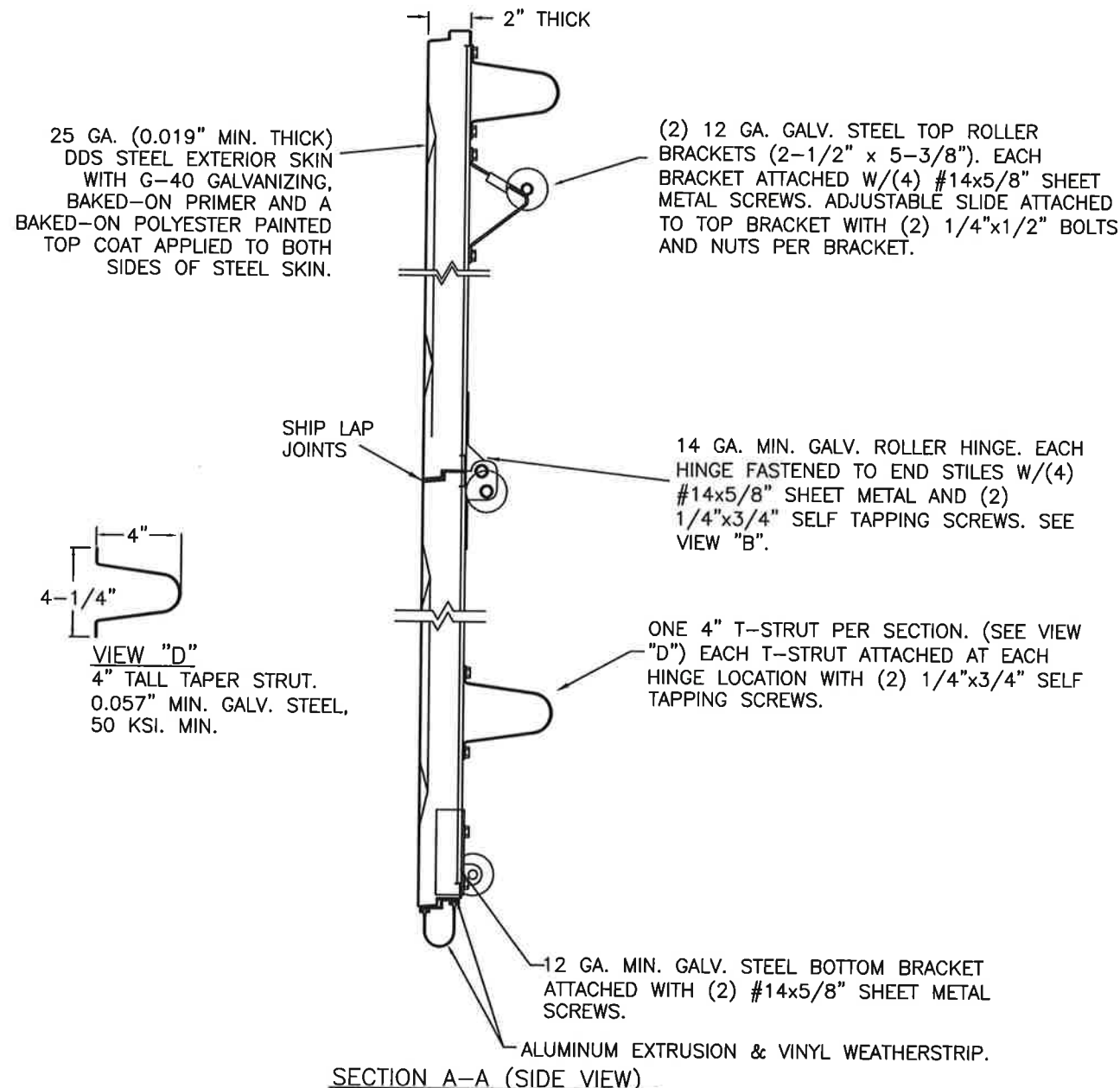
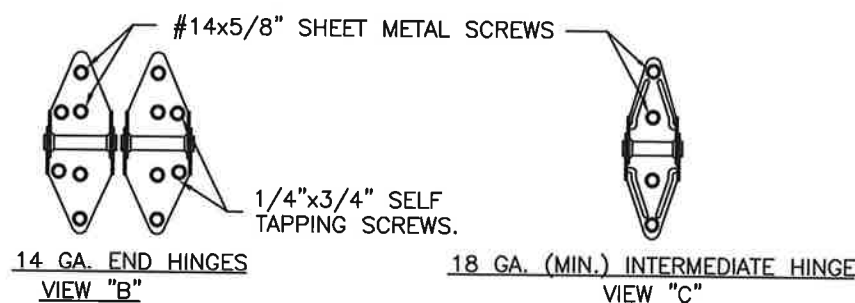
(NOT TO BE USED FOR ATTACHMENT OF TRACK ANGLE TO 2x6 VERTICAL JAMBS OR SUPPORTING STRUCTURE)

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	7-1/2"	1" O.D.
3000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	8-1/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" x 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	16-1/2"	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	17-3/4"	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:  
SCOTT HAMILTON, P.E.  
FLORIDA LICENSE No. 63286



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**Clopay**  
CORPORATION

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

MANUFACTURING PRODUCT CODE  
SHORT PANEL: PAN-2F153  
LONG PANEL: PAN-2F156  
PART NO.: N/A

WINDLOAD RATING  
**W6 DP36T**

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)

DRAWN BY: SH	DATE: 11/19/12	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: 11/20/12	SHEET 3 OF 4	SIZE B
DWG. NO.: 104710-A/B	VER: IBC		



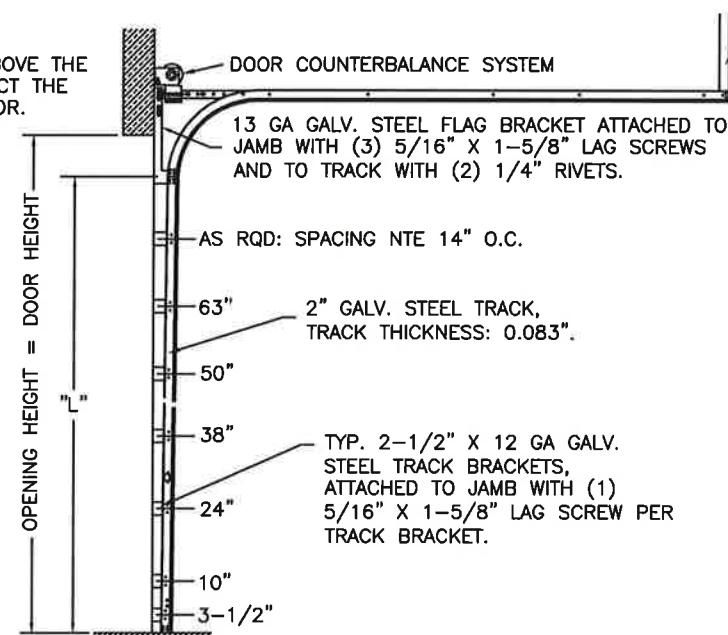
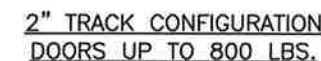
'CLASSIC' RAISED PANEL EMBOSS DOORS				
MODELS	24 GA	25 GA	25 GA	24 GA
CLOPAY	84A, 94	73, 75	76, 75L	98
IDEAL	4RST	6RST	2RST	4F
HOLMES	48, 48B	42, 42B	--	--
	SHORT		LONG	FLUSH

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

SHEET:  
4 OF 4

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

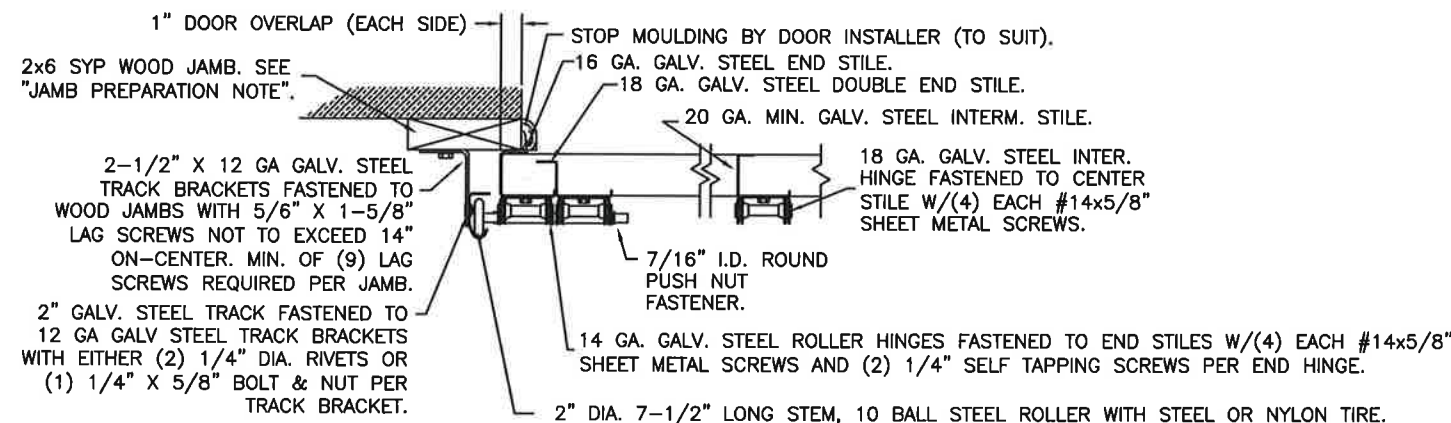
**NOTE:** TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



DOOR HEIGHT	"L"
6'-6"	76"
7'-0"	70"
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).

JAMB CONFIGURATION  
DOORS UP TO 800 LBS.



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.

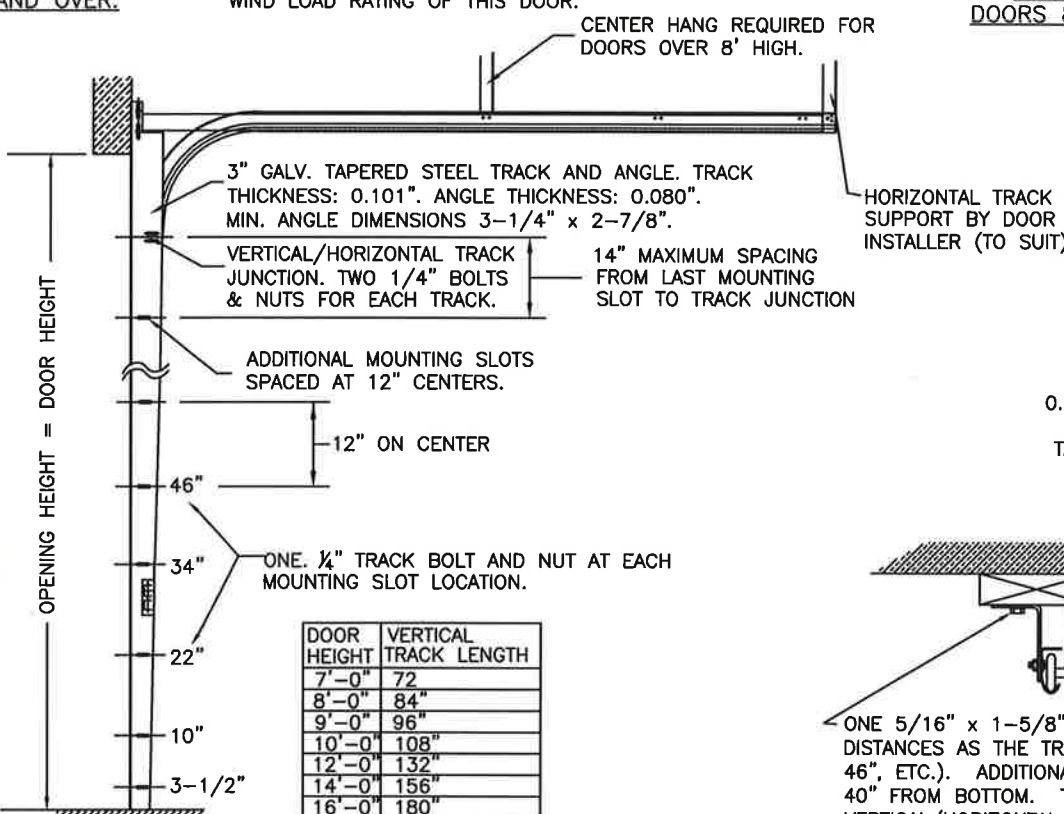
DOUBLE TRACK  
LOW HEADROOM OPTION  
(AVAIL. FOR BOTH 2" AND 3" TRACK)



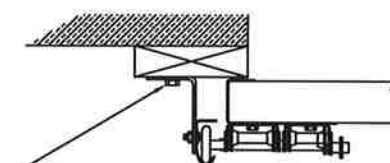
3" TRACK CONFIGURATION  
DOORS 800 LBS AND OVER

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

JAMB CONFIGURATION  
DOORS 800 LBS AND OVER



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.



1" DOOR OVERLAP (EACH SIDE)

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

STOP MOULDING BY DOOR INSTALLER (TO SUIT).

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.

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.

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.

SECTION C-C

### PREPARATION OF JAMBS BY OTHERS

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  
**TOI FRANCES** are

.0	=	$\pm .031$
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Degrees	=	$\pm 1/2^\circ$

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MANUFACTURING PRODUCT CODE
SHORT PANEL: PAN-2F153
LONG PANEL: PAN-2F156
PART NO.: N/A

WINDLOAD RATING  
W6 DP36T

DESCRIPTION: 2" STEEL PAN DOORS 16'2"W (SEE TABLE FOR MODELS)

DRAWN BY: SH	DATE: 11/19/12	SCALE: NTS	DWG. B
CHECKED BY: SH	DATE: 11/20/12	SHEET 1 OF 4	SIZE

CHECKED BY: SH	DATE: 11/20/12	SHEET 4 OF 4	SIZE D
DWG. NO.: 104710-A/B		VER: IBC	

DESIGN ENGINEER:  
SCOTT HAMILTON, P.E.  
FLORIDA LICENSE No. 63286