

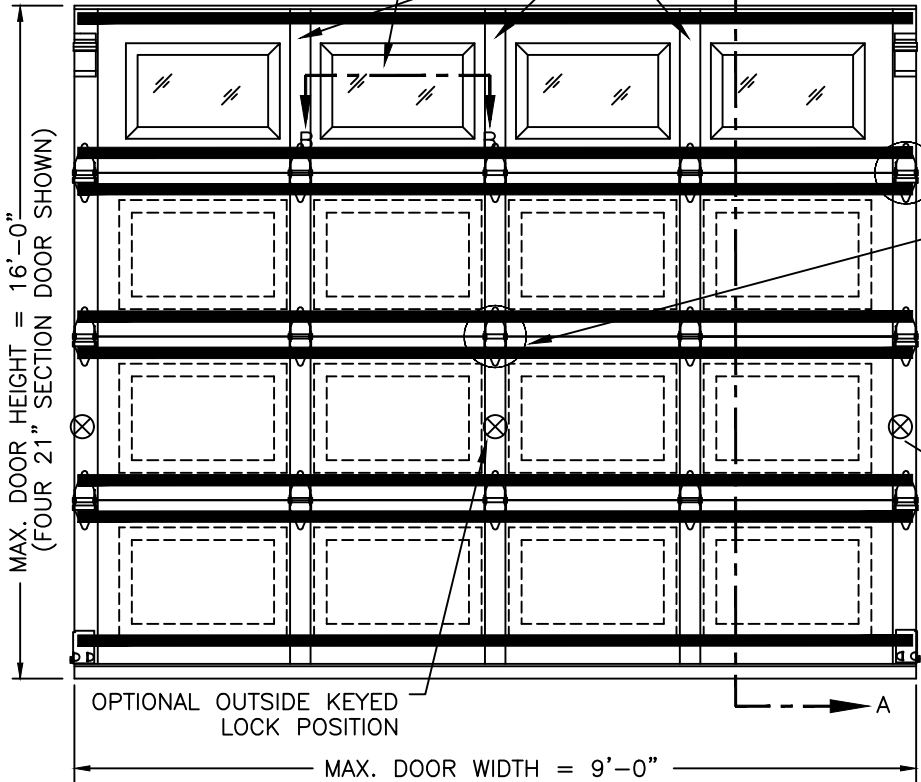
MODELS	SHORT
CLOPAY GALLERY	GD4S, GR4S
HOLMES ARTISTRY	AR4S
IDEAL EXPRESSIONS	ED4S
SEE SHEET 5 FOR "GRAND HARBOR" MODELS	

OPTIONAL IMPACT RESISTANT GLAZING. MAXIMUM GLAZING SIZE (DLO) IS 16-1/2"x13". SEE SECTION B-B ON SHEET 2 FOR DETAILS. GLAZING MAY BE INSTALLED IN TOP SECTION (SHOWN) OR INTERMEDIATE SECTION (NOT SHOWN).

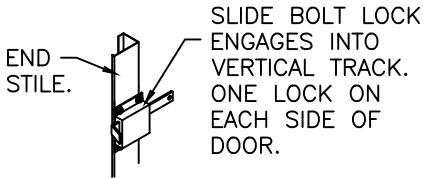
INTERMEDIATE STILE ARE ATTACHED WITH TOG-L-LOC (TOP & BOTTOM) AND URETHANE ADHESIVE (ALONG CENTER). (1) BETWEEN EACH EMBOSS.

SHEET:
1 OF 5

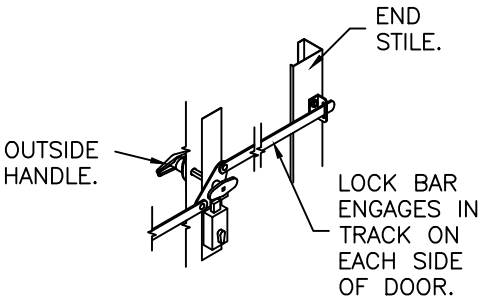
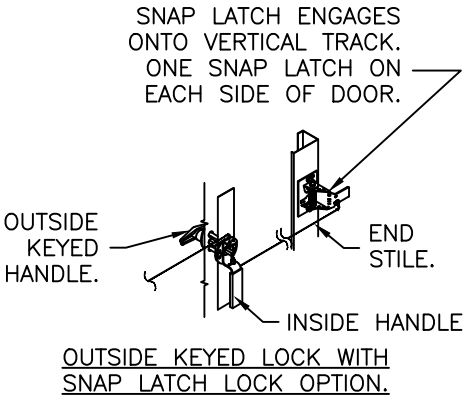
REVISIONS					
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
07	-	3/1/23	-	SH	UPDATED MPC ON SHEET 5.
08	-	9/26/25	-	DH	REVISED IMPACT RESISTANT GLAZING DETAILS



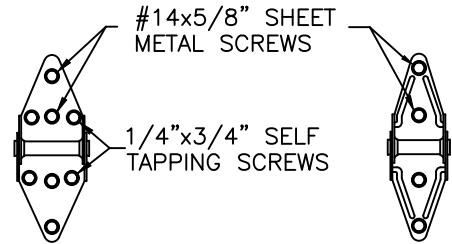
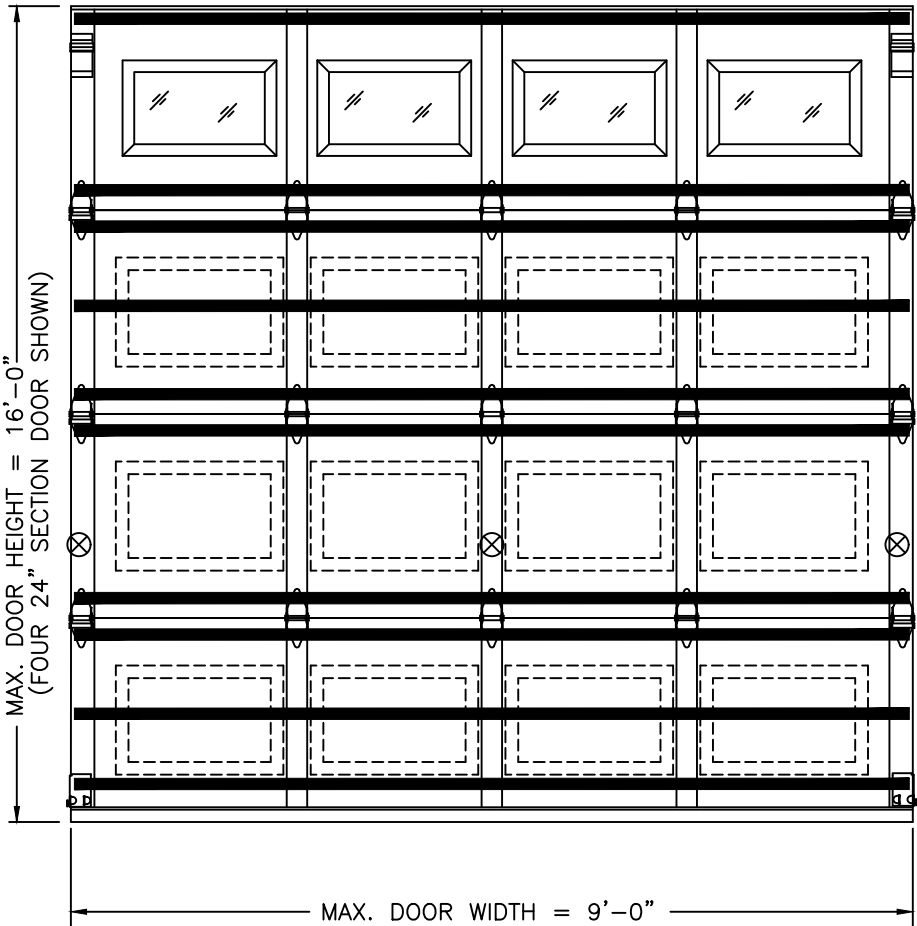
DOOR HEIGHT	# OF SECTIONS
UP TO 6'0"	3
6'3" TO 8'0"	4
8'3" TO 10'0"	5
10'3" TO 12'0"	6
12'3" TO 14'0"	7
14'3" TO 16'0"	8
MAX SECTION HEIGHT: 24"	



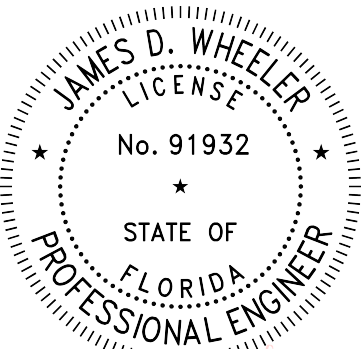
INSIDE SLIDE BOLT LOCK OPTION.



OUTSIDE KEYED LOCK WITH LOCK BAR LOCKING.



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



Digitally signed by Jim Wheeler
Date: 2025.10.15 15:07:34 -04'00'

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

DESIGN LOADS: +50.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +75.0 P.S.F. & -87.0 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: GALLERY 2" PAN SINGLE CAR +50/-58 PSF

DRAWN BY: BFA

DATE: 7/8/08

SCALE: NTS

DWG. SIZE B

CHECKED BY: --

DATE: --

SHEET 1 OF 5

DWG. NO.: 104121

VER: IBC

MANUFACTURING PRODUCT CODE
PAN-2F443

PART NO.: N/A

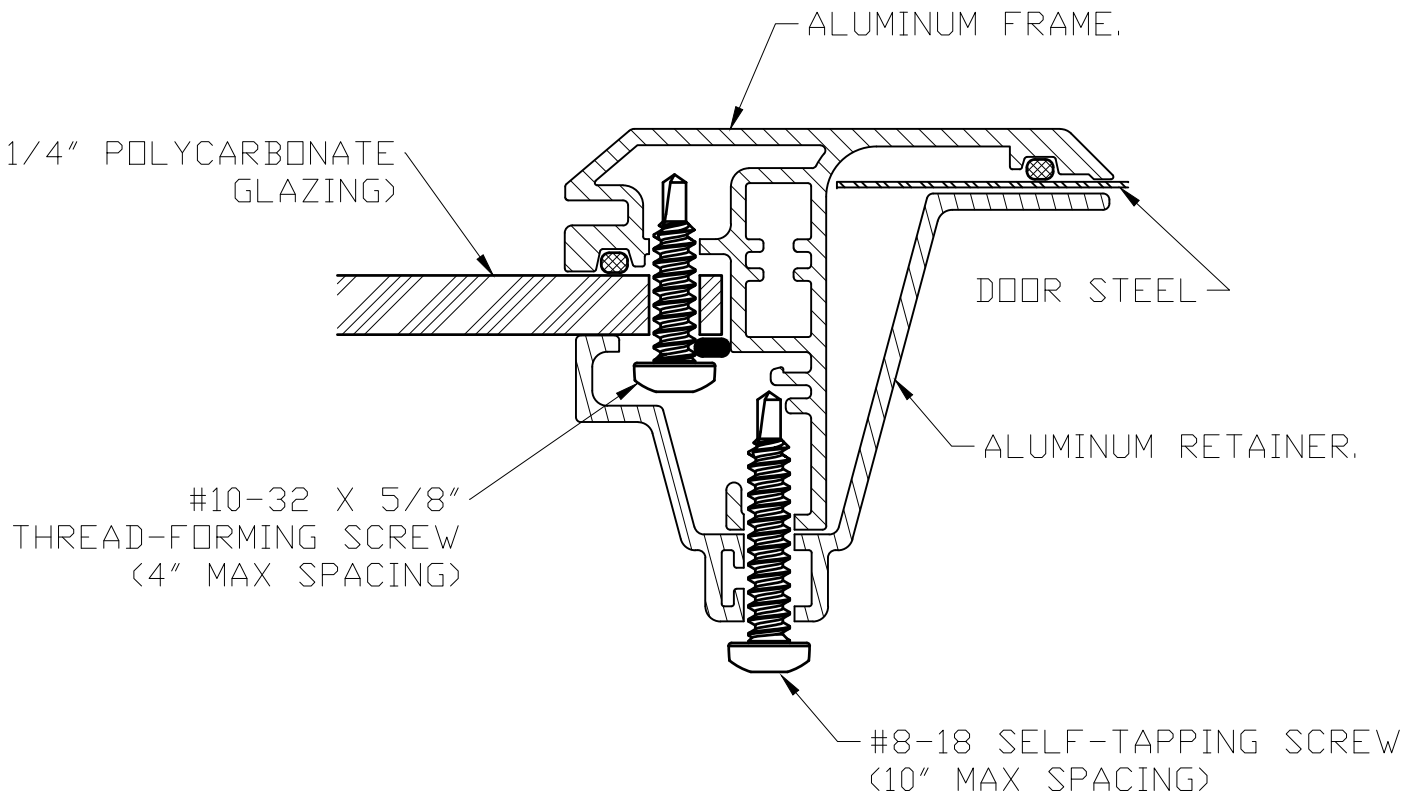
WINDLOAD RATING
W8 DP50

MODELS	SHORT
CLOPAY GALLERY	GD4S, GR4S
HOLMES ARTISTRY	AR4S
IDEAL EXPRESSIONS	ED4S
SEE SHEET 5 FOR "GRAND HARBOR" MODELS	

SHEET:		REVISIONS					DESCRIPTION
2 OF 5		REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	
		08	-	-	-	-	
SEE REVISION HISTORY ON SHEET ONE.							

IMPACT-RESISTANT CONSTRUCTION:
SOLID DOORS (NO GLAZING) OR DOORS WITH OPTIONAL IMPACT-RESISTANT GLAZING ARE IMPACT-RESISTANT. OPTIONAL IMPACT RESISTANT ASSEMBLY CONSISTS OF ALUMINUM FRONT FRAME GE LEXAN MR10, AN APPROVED CC1 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)



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

DESIGN LOADS: +50.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +75.0 P.S.F. & -87.0 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: 06

DRAWN BY: BFA

DATE: 7/8/08

SCALE: NTS

DWG. SIZE B

CHECKED BY: --

DATE: --

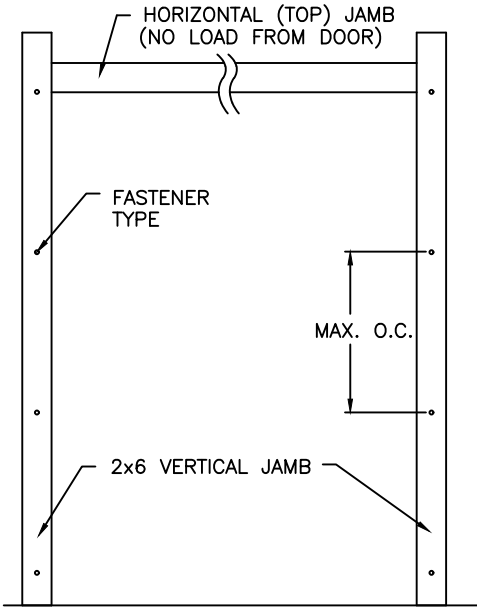
SHEET 2 OF 5

DWG. NO.: 104121

VER: IBC

FLORIDA PRODUCT APPROVAL 5684

MODELS	SHORT
CLOPAY GALLERY	GD4S, GR4S
HOLMES ARTISTRY	AR4S
IDEAL EXPRESSIONS	ED4S
SEE SHEET 5 FOR "GRAND HARBOR" MODELS	



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 +225 LB & -261 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.

PREPARATION OF JAMBS BY OTHERS

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.

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?
HOLLOW CMU BLOCK WALL	1/4" x 1-1/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	7-1/4"	1" O.D.
GROUT-FILLED CMU BLOCK	1/4" x 1-3/4" MIN. EMBED ULTRACON CONCRETE ANCHOR	12"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED ULTRACON CONCRETE ANCHOR	10-1/2"	1" O.D.
2000 PSI MIN. CONCRETE	1/4" x 1" MIN. EMBED TAPCON CONCRETE ANCHOR	8-3/4"	1" O.D.
2000 PSI MIN. CONCRETE	3/8" X 1-3/4" MIN. EMBED WEJ-IT ANKR TITE SLEEVE ANCHOR	22-1/4"	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	24"	1" O.D.

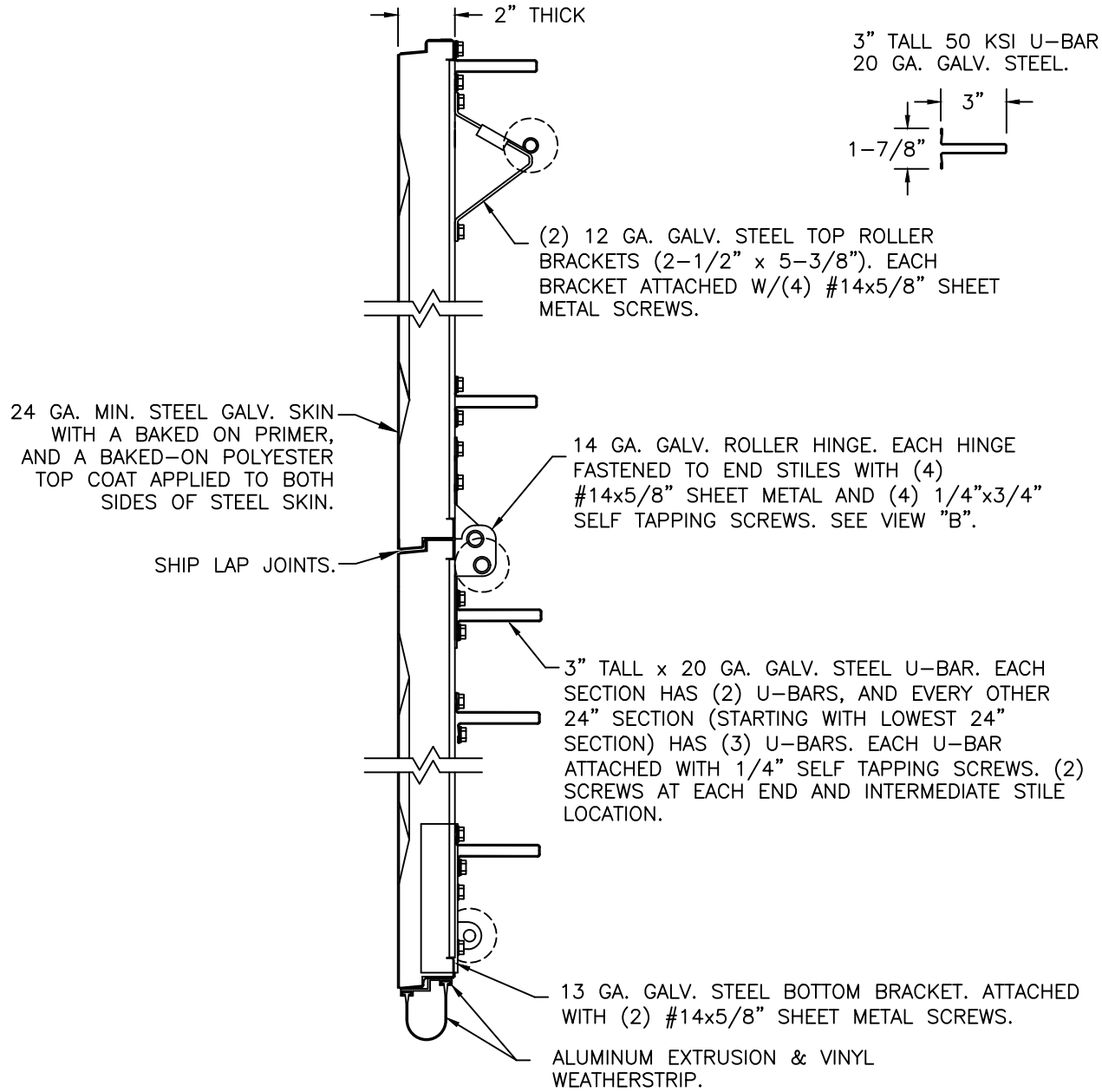
* FIRST (BOTTOM) ANCHOR STARTING AT NO MORE THAN HALF OF THE MAXIMUM ON-CENTER DISTANCE. HIGHEST ANCHOR INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
CLOPAY DOES NOT SUPPLY JAMB ATTACHMENT FASTENERS.
MINIMUM DISTANCE BETWEEN CENTER OF ANCHOR AND EDGE OF CONCRETE BLOCK: 2-1/2", EXCLUDING STUCCO THICKNESS.

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

SHEET:
3 OF 5

REVISIONS

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



SECTION A-A (SIDE VIEW)

DESIGN LOADS: +50.0 P.S.F. & -58.0 P.S.F.
TEST LOADS: +75.0 P.S.F. & -87.0 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: GALLERY 2" PAN SINGLE CAR +50/-58 PSF

DRAWN BY: BFA	DATE: 7/8/08	SCALE: NTS	DWG. SIZE: B
CHECKED BY: --	DATE: --	SHEET 3 OF 5	VER: IBC
DWG. NO.: 104121			

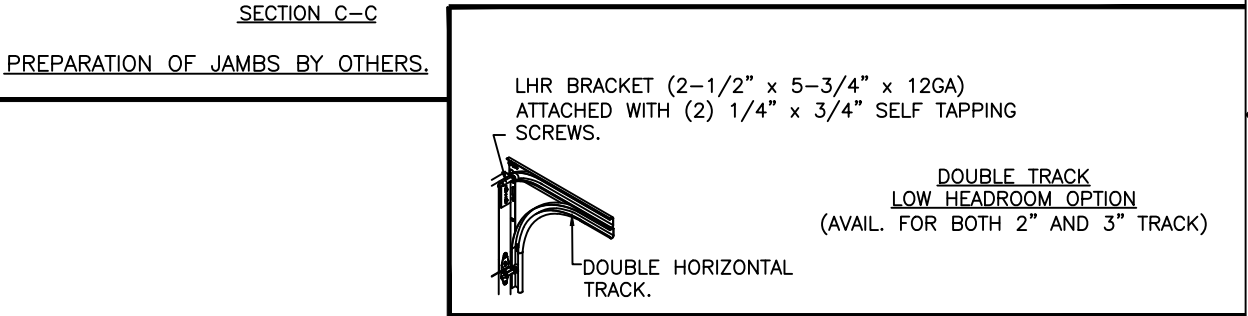
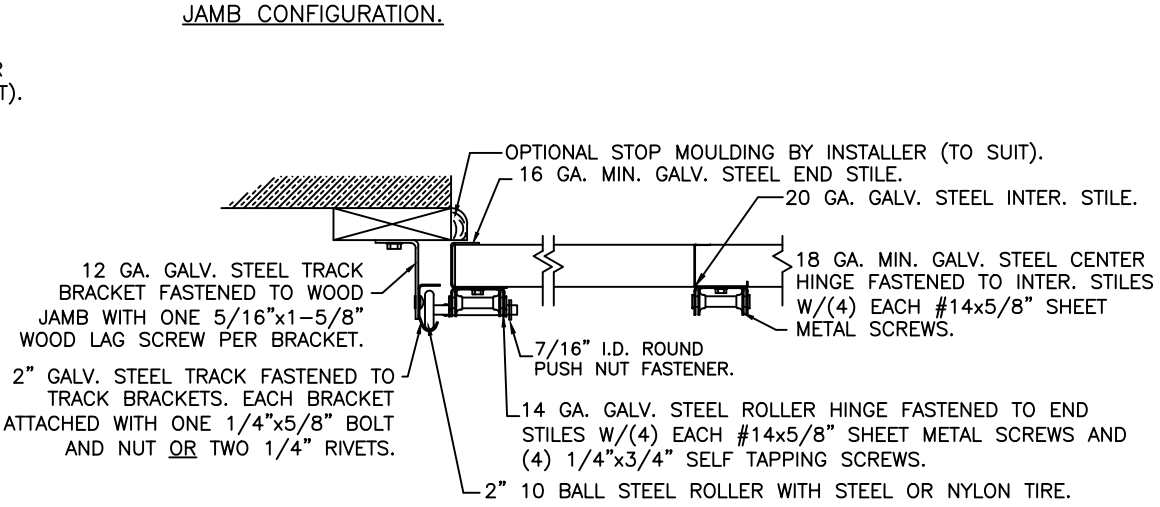
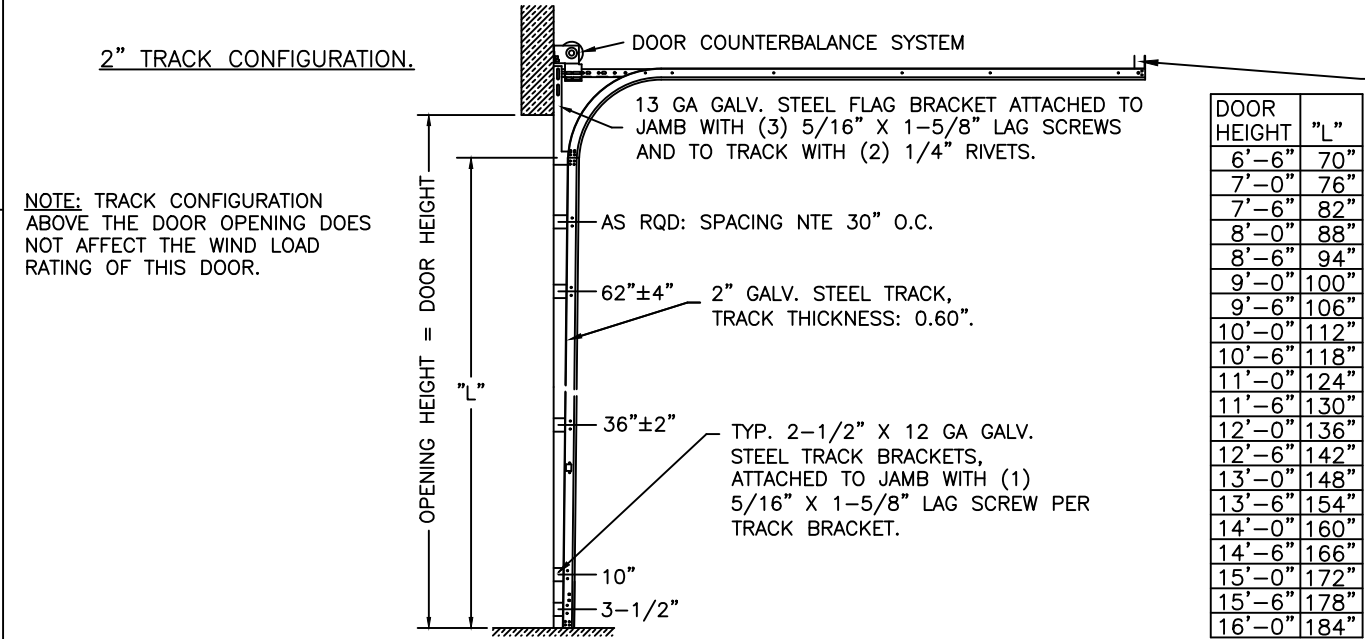
MANUFACTURING PRODUCT CODE
PAN-2F443

PART NO.: N/A

WINDLOAD RATING
W8 DP50

MODELS	SHORT
CLOPAY GALLERY	GD4S, GR4S
HOLMES ARTISTRY	AR4S
IDEAL EXPRESSIONS	ED4S
SEE SHEET 5 FOR "GRAND HARBOR" MODELS	

SHEET: 4 OF 5	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	08	—	—	—	—	SEE REVISION HISTORY ON SHEET ONE.



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

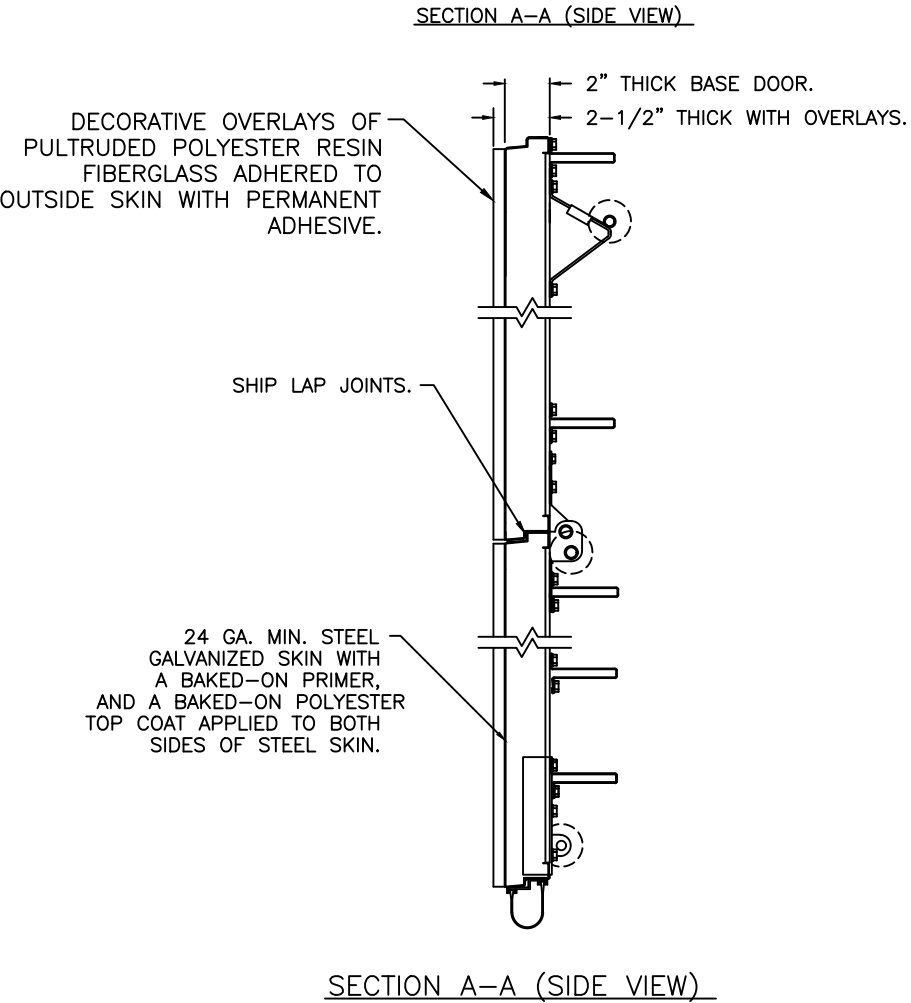
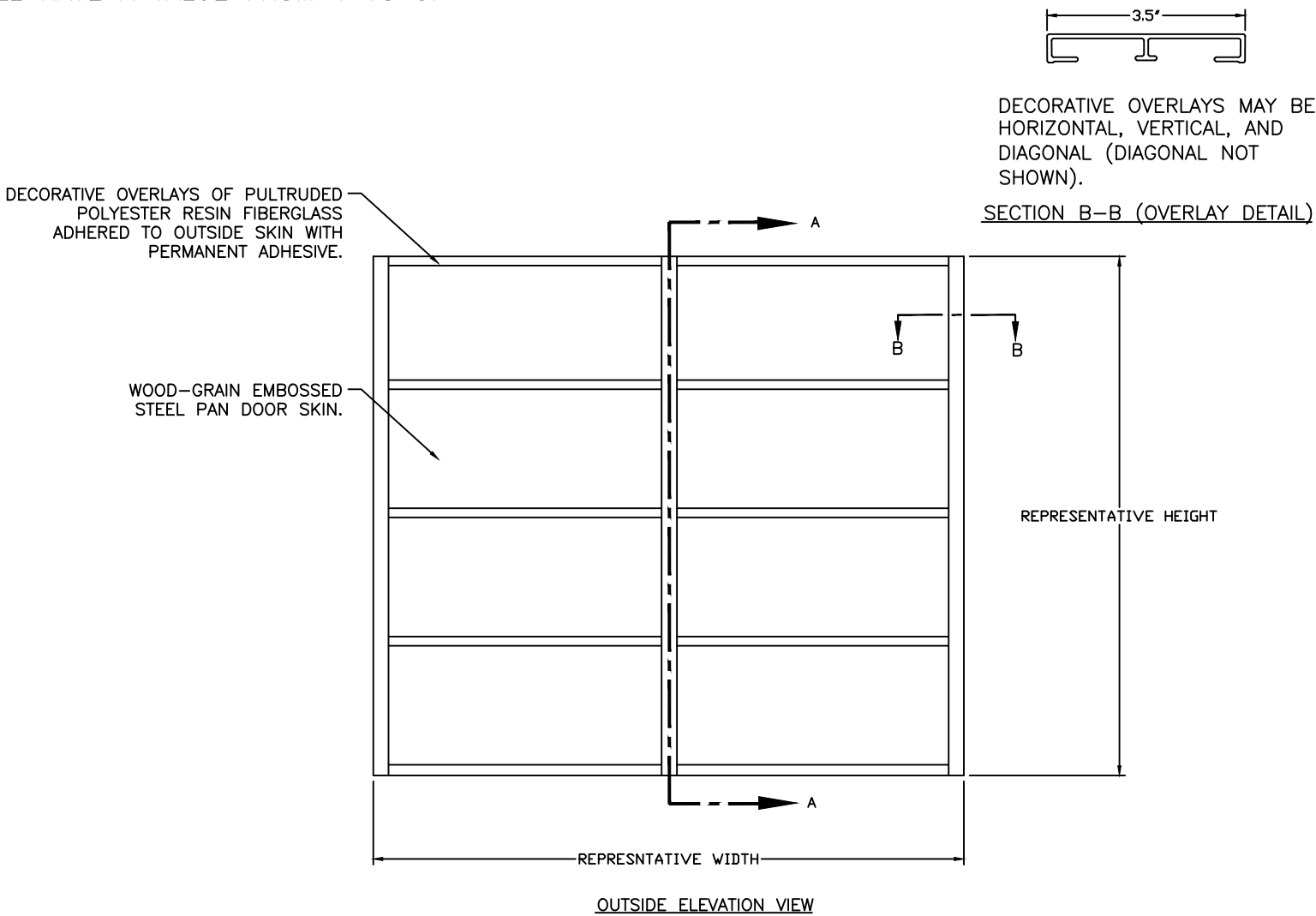
DESIGN LOADS: +50.0 P.S.F. & -58.0 P.S.F. TEST LOADS: +75.0 P.S.F. & -87.0 P.S.F.		MANUFACTURING PRODUCT CODE PAN-2F443	
Unless Stated Otherwise TOLERANCES are .0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2'		PART NO.: N/A	
Unless Stated Otherwise DIMENSIONS ARE IN INCHES.		WINDLOAD RATING W8 DP50	
8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853		DESCRIPTION: GALLERY 2" PAN SINGLE CAR +50/-58 PSF	
DRAWN BY: BFA		DATE: 7/8/08	SCALE: NTS
CHECKED BY: --		DATE: --	SHEET 4 OF 5
DWG. NO.: 104121		VER: IBC	DWG. SIZE B

CLOPAY 'GRAND HARBOR' SERIES: GHnn, GHRnn

IDEAL 'STONE MANOR' SERIES: SMnn

NOTE: "nn" REPRESENTS THE ARRANGEMENT OF THE DECORATIVE OVERLAYS. THE FIRST DIGIT WILL HAVE A VALUE FROM 1 TO 2 AND THE SECOND DIGIT WILL HAVE A VALUE FROM 1 TO 3.

SHEET: 5 OF 5	REVISIONS					
	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
	08	—	—	—	—	SEE REVISION HISTORY ON SHEET ONE.



"GRAND HARBOR" TYPE OVERLAY DOORS

- NOTES:
- "GRAND HARBOR" TYPE DOORS USE THE SAME REINFORCEMENTS AND BASE SECTION CONSTRUCTION AND TRACK CONFIGURATION DESCRIBED ON SHEETS 1-4 OF THIS DRAWING.
 - "GRAND HARBOR" TYPE DOORS ARE IMPACT RESISTANT AS SOLID DOORS ONLY.

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

DESIGN LOADS: +50.0 P.S.F. & -58.0 P.S.F. TEST LOADS: +75.0 P.S.F. & -87.0 P.S.F.		MANUFACTURING PRODUCT CODE SP0-2F449	
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 W8 DP50	
8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853		DESCRIPTION: GALLERY 2" PAN SINGLE CAR +50/-58 PSF	
DRAWN BY: BFA		DATE: 7/8/08	SCALE: NTS
CHECKED BY: --		DATE: --	SHEET 5 OF 5
DWG. NO.: 104121		VER: IBC	DWG. SIZE B