

CLOPAY MODELS 84A, 94, 98
IDEAL MODELS: 4RST, 4F
HOLMES MODELS: 48, 48B

INSTALLER MODEL	RETAIL MODEL	DESCRIPTION
94, 4RST	84A, 48, 48B	WOODGRAIN TEXTURE, RAISED PANEL, GALV. INTER. STILES
98, 4F		WOODGRAIN TEXTURE, FLUSH PANEL, GALV. INTER. STILES

SECTION B-B



TABLE 1

DOOR HEIGHT	NUMBER OF SECTIONS*
6'0" TO 7'0"	4
7'6" TO 8'0"	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

* SECTION ARE EITHER 18" OR 21" HIGH

OPTIONAL DECORATIVE SNAP-IN INSERT.

DETAIL 'D'

MULTIPURPOSE HIGH BOND TAPE.

OPTIONAL DECORATIVE FRONT FRAME FACADE.

GE SSG4000AC STRUCTURAL SILICONE SEALANT.

TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING.

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

POLYSTYRENE RETAINER FASTENED TO FRAME WITH (10) #8 x 3/4" PAN HEAD MACHINE SCREWS.

THIS DOOR MEETS THE REQUIREMENTS OF THE LARGE MISSILE IMPACT AND CYCLIC TESTING.

TRACK CONFIGURATION

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT). CENTER HANG REQUIRED FOR DOORS OVER 8' HIGH.

LHR TOP BRACKET DOUBLE HORIZONTAL TRACK DOUBLE TRACK LOW HEADROOM OPTION

VERTICAL TRACK ATTACHED TO FLAG BRACKET WITH (1) 3/8"x3/4" CARRIAGE BOLT.

13 GA. GALV. STEEL FLAG BRACKET, EACH FASTENED TO WOOD JAMB WITH (3) 5/16"x1-1/2" WOOD LAG SCREWS.

VERTICAL TRACK ATTACHED TO HORIZONTAL TRACK WITH (2) 1/4"x3/4" TRACK BOLTS.

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.060".

TYP. 2-1/2"x12 GA. GALV. STEEL TRACK BRACKET.

DOOR HEIGHT	L"	X1"	X2"	X3"	X4"	X5"	X6"	X7"	X8"
6'-6"	76"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
7'-0"	76"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
7'-6"	82"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
8'-0"	88"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
8'-6"	94"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
9'-0"	100"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
9'-6"	106"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
10'-0"	112"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
10'-6"	118"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
11'-0"	124"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
11'-6"	130"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
12'-0"	136"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
12'-6"	142"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
13'-0"	148"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
13'-6"	154"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
14'-0"	160"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
14'-6"	166"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
15'-0"	172"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
15'-6"	178"	3-1/2"	10"	34"	58"	82"	106"	130"	154"
16'-0"	184"	3-1/2"	10"	34"	58"	82"	106"	130"	154"

SECTION A-A

24 GA. 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. (ASTM No. A653).

END STILE LOCK BAR GUIDE
LOCK BAR ENAGES IN TRACK ON EACH SIDE OF DOOR.
END STILE
SLIDE BOLT LOCK ENAGES INTO VERTICAL TRACK. ONE LOCK ON EACH SIDE OF DOOR.
INSIDE SLIDE BOLT LOCK OPTION

12 GA. GALV. STEEL TOP ROLLER BRACKET (2-1/2" x 5-3/8"). EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS.

14 GA. GALV. STEEL END HINGE, EACH FASTENED TO END STILES W/(4) #14x5/8" SHEET METAL SCREWS & (4) 1/4" SELF TAPPING SCREWS.

3" TALL x 20 GA. GALV. STEEL U-BAR, TWO U-BARS PER SECTION. EACH U-BAR ATTACHED WITH 1/4" SELF TAPPING SCREWS. (2) SCREWS AT EACH END AND INTERMED. STILE LOCATION.

13 GA. GALV. STEEL BOTTOM BRACKET (3-1/2" x 5-1/2") ATTACHED WITH (2) #14x5/8" SHEET METAL SCREWS.

ALUMINUM EXTRUSION & VINYL WEATHERSTRIP. EXTRUSION ATTACHED WITH #8x1/2" SELF TAPPING SCREWS AT 18" ON CENTER SPACING [(6) SCREWS ON 9'W DOOR].

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 JAMB. NO LOAD FROM THE DOOR IS TRANSFERRED TO THE HORIZONTAL (TOP) 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.

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.

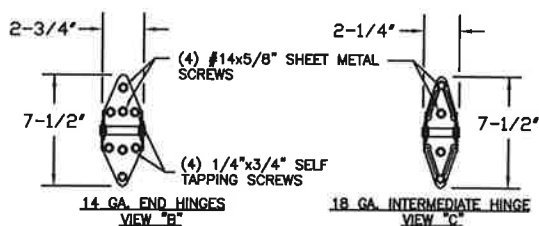
2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT (NOT TO BE USED FOR ATTACHMENT OF TRACK BRACKETS)

BUILDING TYPE	FASTENER TYPE	MAXIMUM * ON CENTER DISTANCE BETWEEN FASTENERS	STEEL WASHERS REQUIRED?
C-90 BLOCK (HOLLOW OR GROUTED)	1/4" x 3" (1-1/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	10'-1/2"	1" O.D.
3,000 PSI MIN. CONCRETE	1/4" x 4" (1-3/4" EMBED) ITW TAPCON CONCRETE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
3,000 PSI MIN. CONCRETE	1/2" x 4" (2-1/4" EMBED) SIMPSON STRONG-TIE WEDGE-ALL WEDGE ANCHOR (2" MIN. EDGE DISTANCE)	21'-1/2"	INCLUDED
WOOD FRAME	1/2" x 4" (1-5/8" EMBED) LAG SCREW (ASTM A307, GRADE A) (2-1/2" MIN. EDGE DISTANCE)	24"	1" O.D.
2,000 PSI MIN. CONCRETE	1/2" x 4" (2-1/2" EMBED) WEJ-IT SLEEVE ANCHOR (2-1/2" MIN. EDGE DISTANCE)	24"	INCLUDED

* - FIRST ANCHOR/SCREW STARTING FROM BOTTOM AT NO MORE THAN HALF OF MAXIMUM ON CENTER DISTANCE. HIGHEST ANCHOR/SCREW INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING HEIGHT.

SNAP LATCH ENGAGES ONTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.
INTER. STILE
OUTSIDE KEYED HANDLE
INSIDE HANDLE
OUTSIDE KEYED LOCK
SNAP LATCH LOCK OPTION

INTER. STILE
OUTSIDE HANDLE
END STILE
LOCK BAR GUIDE
LOCK BAR ENAGES IN TRACK ON EACH SIDE OF DOOR.
OUTSIDE KEYED LOCK
LOCK BAR LOCKING



JAMB CONFIGURATION

STOP MOULDING BY DOOR INSTALLER (TO SUIT).
20 GA. MIN. GALV. STEEL END STILE, 2-5/8"x2".
20 GA. MIN. GALV. STEEL INTERM. STILE, 2"x2".
12 GA. GALV. STEEL TRACK BRACKET FASTENED TO WOOD JAMB WITH ONE 5/16"x1-1/2" WOOD LAG SCREW PER BRACKET.
2" GALV. STEEL TRACK FASTENED TO TRACK BRACKETS. EACH BRACKET ATTACHED WITH ONE 1/4"x5/8" BOLT & NUT OR TWO 1/4" RIVETS.
18 GA. GALV. STEEL INTER. HINGE FASTENED TO CENTER STILE W/(4) EACH #14x5/8" SHEET METAL SCREWS.
7/16" ROUND PUSHNUT IS INSTALLED ON EACH ROLLER SHAFT.
14 GA. GALV. STEEL END HINGE FASTENED TO END STILES W/(4) EACH #14x5/8" SHEET METAL SCREWS & (4) 1/4" SELF TAPPING SCREWS.
2" 10 BALL STEEL ROLLER (1-3/16"x7/16"x4") WITH STEEL OR NYLTON TIRE.

DESIGN LOADS: +48.0 PSF & -54.0 PSF.
TEST LOADS: +72.0 PSF & -81.0 PSF.

Clopay
CORPORATION

TOLERANCES
Unless Stated Otherwise
.00 = ±.03
.000 = ±.015
.0000 = ±.007
Degrees = ±1/2°
CLOPAY CORPORATION
8585 DUKE BLVD.
MASON, OHIO 45040
(513) 770-4800

MANUFACTURING PRODUCT CODE:
MPC: PAN-2F143
DATE: 10/23/06
DRAWN BY: SH
CHECKED BY: SH

PAGE: 1 OF 1
MAX. SIZE: 9'0"W x 16'0"H
DESCRIPTION: SINGLE CAR W8 PAN DOOR WITH IMPACT RESISTANT LITES
DRAWING NUMBER: B 103547
VER: IBC