'CLASSIC' RAISED PANEL EMBOSS DOORS

MODELS	24 GA
CLOPAY	84A, 94
IDEAL	4RST, 4F*
HOLMES	48, 48B

* - MODEL 4F IS FLUSH

'CLASSIC' RAISED PANEL EMBOSS DOORS

DOOR WIDTH	# OF INTERM. STILES	# OF INTERM. HINGES
4'2" TO 6'0"	1	1
6'2" TO 7'10"	2	2
8'0" TO 9'0"	3	3

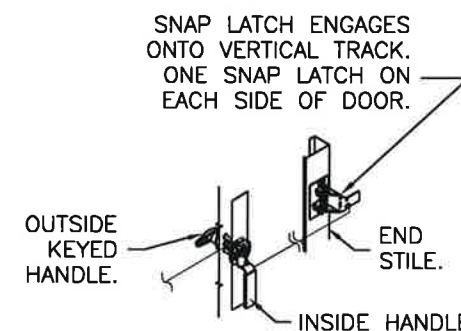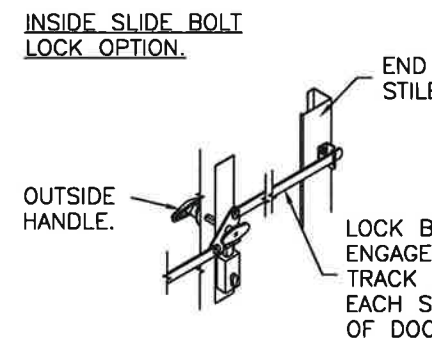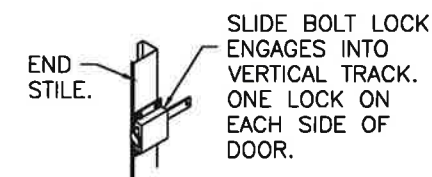| DOOR HEIGHT	# OF SECTIONS	# OF U-BARS
UP TO 7'0"	4	8
7'3" TO 8'9"	5	10
9'0" TO 10'6"	6	12
10'9" TO 12'3"	7	14
12'6" TO 14'0"	8	16
14'3" TO 15'9"	9	18
16'0"	10	20
MAX SECTION HEIGHT: 21"		

EQUIVALENT SECTION CONSTRUCTION: FOR ANY OF THE MODELS LISTED ON THIS DRAWING, THE FOLLOWING W-LEVEL DOORS USE EQUIVALENT SECTIONS (UP TO THE MAXIMUM WIDTH ALLOWED ON THIS DRAWING).
W6, W7, W8.
ANY OF THESE W-LEVELS MAY BE SHOWN ON THE OPTIONAL SHIPPING LABEL ON THE END STILE.

IMPACT RESISTANT GLAZING. SEE SECTION B-B ON SHEET 2 FOR DETAILS.
MAX. IMPACT RESISTANT GLAZING SIZE IS 18-1/2"x11".
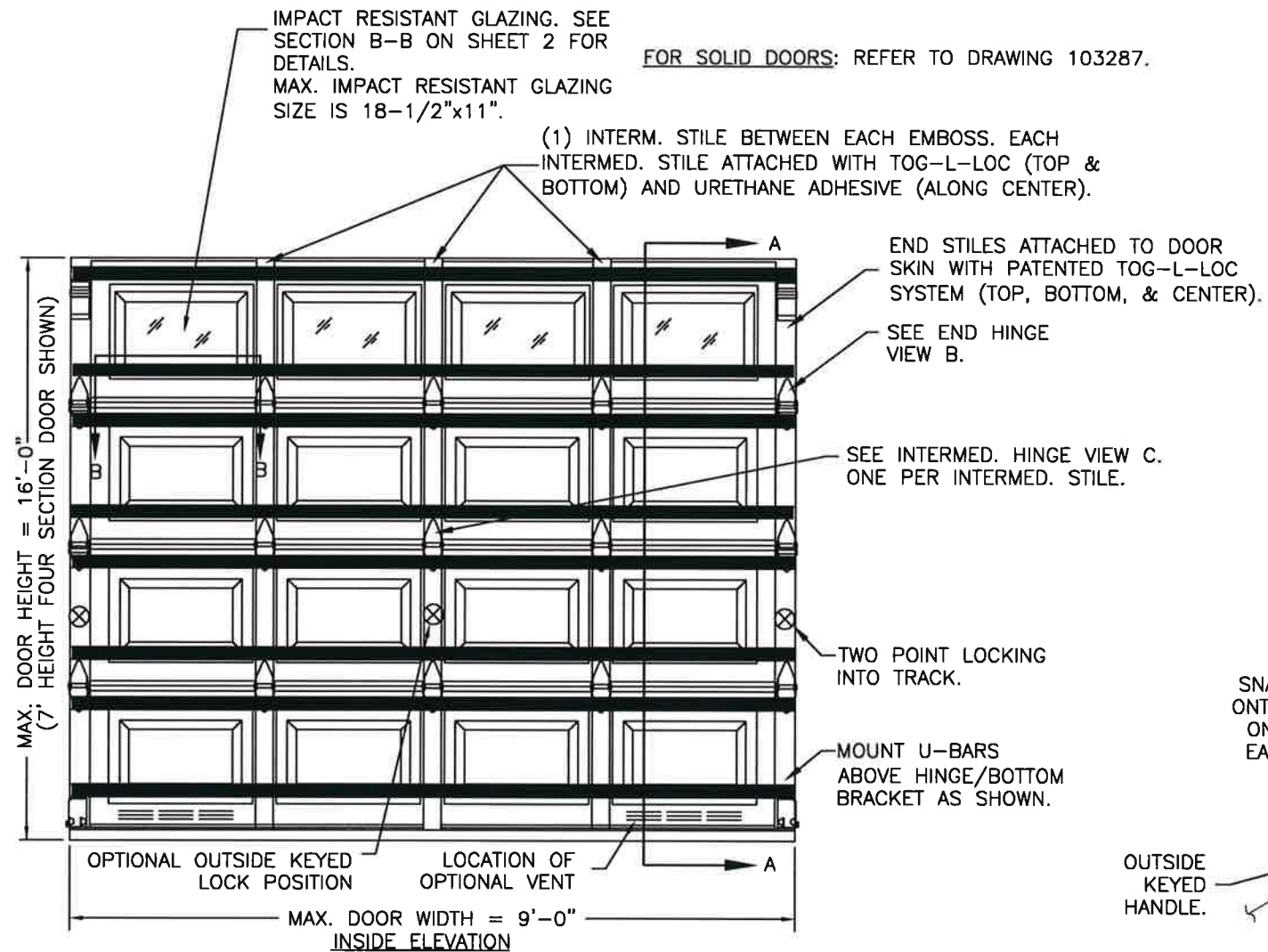
FOR SOLID DOORS: REFER TO DRAWING 103287.

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

END STILES ATTACHED TO DOOR SKIN WITH PATENTED TOG-L-LOC SYSTEM (TOP, BOTTOM, & CENTER).

SEE END HINGE VIEW B.

SEE INTERMED. HINGE VIEW C. ONE PER INTERMED. STILE.

TWO POINT LOCKING INTO TRACK.

MOUNT U-BARS ABOVE HINGE/BOTTOM BRACKET AS SHOWN.

MAX. DOOR HEIGHT = 16'-0"
(7' HEIGHT FOUR SECTION DOOR SHOWN)

OPTIONAL OUTSIDE KEYED LOCK POSITION

LOCATION OF OPTIONAL VENT

MAX. DOOR WIDTH = 9'-0"
INSIDE ELEVATION

SLIDE BOLT LOCK ENGAGES INTO VERTICAL TRACK. ONE LOCK ON EACH SIDE OF DOOR.

END STILE.

INSIDE SLIDE BOLT LOCK OPTION.

SNAP LATCH ENGAGES ONTO VERTICAL TRACK. ONE SNAP LATCH ON EACH SIDE OF DOOR.

OUTSIDE KEYED HANDLE.

END STILE.

INSIDE HANDLE

OUTSIDE KEYED LOCK WITH SNAP LATCH LOCK OPTION.
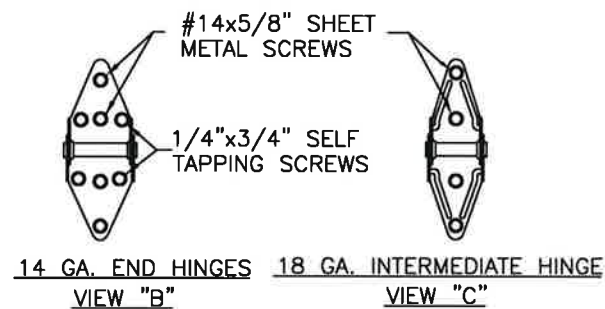
END STILE.

OUTSIDE HANDLE.

LOCK BAR ENGAGES IN TRACK ON EACH SIDE OF DOOR.

OUTSIDE KEYED LOCK WITH LOCK BAR LOCKING.

#14x5/8" SHEET METAL SCREWS

1/4"x3/4" SELF TAPPING SCREWS

14 GA. END HINGES
VIEW "B"

18 GA. INTERMEDIATE HINGE
VIEW "C"

DESIGN ENGINEER:
MARK WESTERFIELD, P.E.
FLORIDA P.E. #48495, NC P.E. #23832, TEXAS P.E. #91513

STATE OF TEXAS
MARK WESTERFIELD
91513
LICENSED PROFESSIONAL ENGINEER
7/21/21

DESIGN LOADS: +48.0 P.S.F. & -54.0 P.S.F.
TEST LOADS: +72.0 P.S.F. & -81.0 P.S.F.

Unless Stated Otherwise
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.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

MANUFACTURING PRODUCT CODE
PAN-2F143
PART NO.: N/A

WINDLOAD RATING
W8 DP48

DESCRIPTION: CLASSIC AND CH RP STEEL PAN SC +48/-54 PSF
DRAWN BY: S.H.   DATE: 10/23/06   SCALE: NTS
CHECKED BY: --   DATE: --   SHEET 1 OF 4
DWG. NO.: 103547   VER: TDI
DWG. B   SIZE B

'CLASSIC' RAISED PANEL EMBOSS DOORS	
MODELS	24 GA
CLOPAY	84A, 94
IDEAL	4RST, 4F✱
HOLMES	48, 48B

✱ - MODEL 4F IS FLUSH

IMPACT-RESISTANT CONSTRUCTION:
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.

2.25

MULTIPURPOSE HIGH BOND TAPE (BETWEEN FRAME AND FACADE).

DECORATIVE FRONT FACADE.

0.188

STRUCTURAL SILICONE SEALANT (BETWEEN STEEL SKIN AND FRAME).

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.
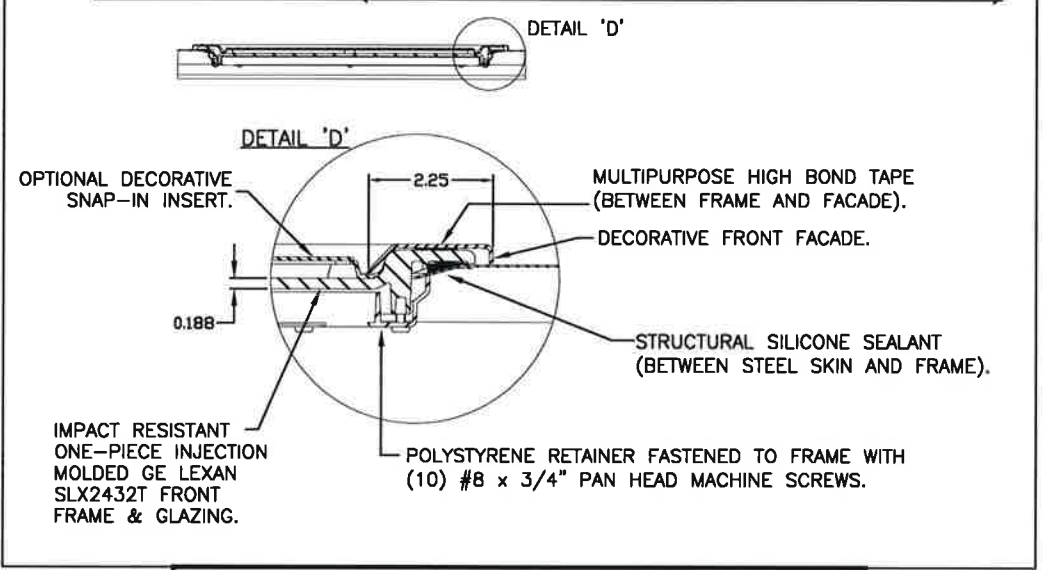
IMPACT-RESISTANT ASSEMBLY DETAILS
DRAWING 103547

MARK WESTERFIELD
91513
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.0 = ±.031 .00 = ±.015 .000 = ±.005 .0000 = ±.001 Degrees = ±1/2°		

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CHECKED BY: --	DATE: --	SHEET 2 OF 4	

Unless Stated Otherwise DIMENSIONS ARE IN INCHES. | DWG. NO.: 103547 | VER: TDI

		'CLASSIC' RAISED PANEL EMBOSS DOORS
MODELS	24 GA	
CLOPAY	84A, 94	
IDEAL	4RST, 4F✱	
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✱ - MODEL 4F IS FLUSH

REVISIONS

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

IN THE CASE OF GYPSUM WALLBOARD LOCATED AT OR NEAR THE DOOR OPENING LOCATION THERE ARE TWO ACCEPTABLE ALTERNATIVES:
1) THE WALLBOARD CAN BE CUT AWAY FROM THE DOOR OPENING AND 2X6 SOUTHERN YELLOW PINE WOOD JAMBS MOUNTED DIRECTLY TO THE SUPPORTING STRUCTURE TO CREATE THE MOUNTING SURFACE. ALTERNATIVELY, THE BRACKETS MAY BE ATTACHED DIRECTLY TO THE SUPPORTING STRUCTURE. SEE DETAIL BELOW. THE CENTER OF SCREW HOLE MUST BE AT LEAST ½" FROM BOTH EDGES FOR A 5/16" LAG SCREW.
2) IF THE WALLBOARD IS NOT CUT AWAY TO EXPOSE THE UNDERLYING STRUCTURE (WOOD FRAMING MEMBERS), A 2X6 SOUTHERN YELLOW PINE WOOD BUCK OVER SHALL BE INSTALLED THE WALLBOARD FRAMING THE OPENING USING THE JAMB ATTACHMENT FASTENERS LISTED BELOW. HOWEVER, THE JAMB ATTACHMENT FASTENERS MUST BE OF A SUFFICIENT INCREASED LENGTH TO ACCOUNT FOR THE THICKNESS OF THE WALLBOARD TO ENSURE PROPER FASTENER EMBEDMENT INTO THE STRUCTURAL FRAMING MEMBERS OF THE SUPPORTING STRUCTURE.

⊢—1/2" FROM EDGE
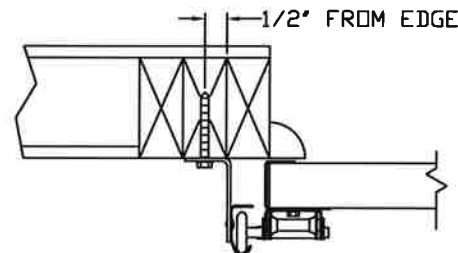
VERTICAL JAMB ATTACHMENT (WOOD FRAME BUILDINGS):
3/8"x3" LAG SCREWS ON 24" CENTERS. 1-1/8" MIN. O.D. WASHER REQUIRED. LAG SCREWS MAY BE COUNTERSUNK (BUT NOT REQUIRED) TO PROVIDE A FLUSH MOUNTING SURFACE. HORIZONTAL JAMBS DO NOT TRANSFER LOAD.

VERTICAL JAMB ATTACHMENT (C-90 BLOCK OR 2,000 PSI MIN. CONCRETE COLUMN):
3/8"x3" SLEEVE ANCHOR BOLTS ON 18" CENTERS (2,000 PSI MIN. CONCRETE). WASHERS INCLUDED WITH SLEEVE ANCHORS.
OR
1/4"x3" TAPCON SCREWS ON 15" CENTERS (2,000 PSI MIN. CONCRETE) OR 8" CENTERS (C-90 BLOCK). 1" MIN. 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.

OTHER JAMB CONFIGURATIONS: REFER TO DASMA TDS-161. A LICENSED DESIGN PROFESSIONAL MAY ALSO BE EMPLOYED TO APPROVE ALTERNATE FASTENERS AND/OR JAMB CONFIGURATIONS.
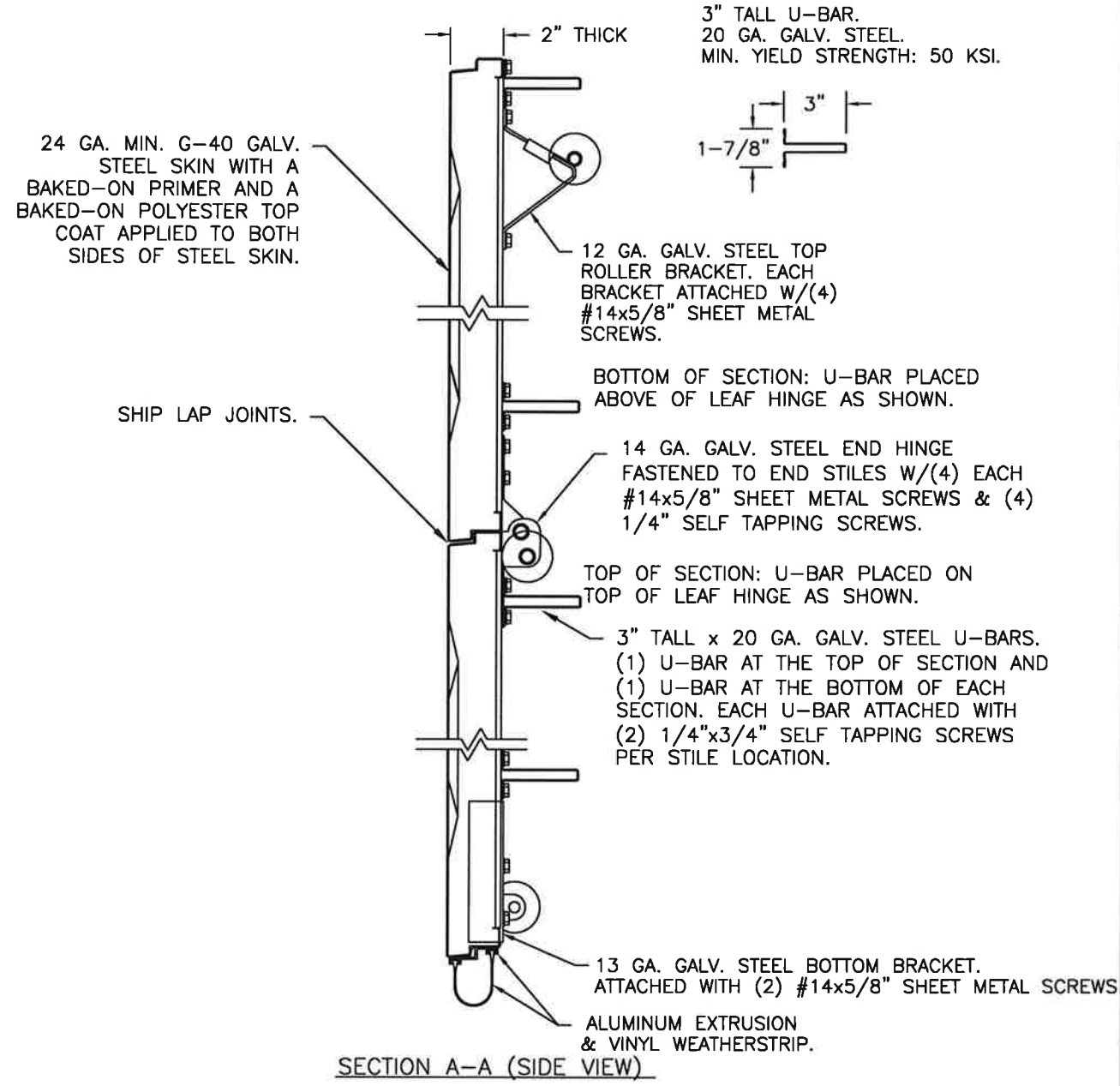
SEE ADDITIONAL DETAILS IN "CONNECTING JAMB TO EXISTING STRUCTURES" JAMB FASTENER ANALYSIS CBPC-JFA-0001 (AVAILABLE ON TDI WEBSITE OR FROM MANUFACTURER).

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 THE DRAWING.

24 GA. MIN. G-40 GALV. STEEL SKIN WITH A BAKED-ON PRIMER AND A BAKED-ON POLYESTER TOP COAT APPLIED TO BOTH SIDES OF STEEL SKIN.

SHIP LAP JOINTS.

2" THICK

3" TALL U-BAR.
20 GA. GALV. STEEL.
MIN. YIELD STRENGTH: 50 KSI.

3"
1-7/8"

12 GA. GALV. STEEL TOP ROLLER BRACKET. EACH BRACKET ATTACHED W/(4) #14x5/8" SHEET METAL SCREWS.

BOTTOM OF SECTION: U-BAR PLACED ABOVE OF LEAF HINGE AS SHOWN.

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

TOP OF SECTION: U-BAR PLACED ON TOP OF LEAF HINGE AS SHOWN.

3" TALL x 20 GA. GALV. STEEL U-BARS. (1) U-BAR AT THE TOP OF SECTION AND (1) U-BAR AT THE BOTTOM OF EACH SECTION. EACH U-BAR ATTACHED WITH (2) 1/4"x3/4" SELF TAPPING SCREWS PER STILE LOCATION.

13 GA. 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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2" TRACK CONFIGURATION.

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

DOOR COUNTERBALANCE SYSTEM

13 GA GALV. STEEL FLAG BRACKET ATTACHED TO JAMB WITH (3) 5/16" X 1-5/8" LAG SCREWS AND TO TRACK WITH (2) 1/4" RIVETS.

AS RQD: SPACING NTE 30" O.C.

62"±4"

2" GALV. STEEL TRACK, TRACK THICKNESS: 0.60".

36"±2"

TYP. 2-1/2" X 12 GA (0.099") GALV. STEEL TRACK BRACKETS, ATTACHED TO JAMB WITH (1) 5/16" X 1-5/8" LAG SCREW PER TRACK BRACKET.

10"

3-1/2"

OPENING HEIGHT = DOOR HEIGHT

"L"

HORIZONTAL TRACK SUPPORT BY DOOR INSTALLER (TO SUIT).

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"

3" TRACK IS ALSO AVAILABLE.

JAMB CONFIGURATION.

SYP WOOD JAMB. SEE "JAMB PREPARATION NOTE".

OPTIONAL STOP MOULDING BY INSTALLER (TO SUIT).

20 GA GALV. STEEL END STILE.

20 GA MIN. GALV. STEEL INTERM. STILE.

2-1/2" X 12 GA GALV. STEEL TRACK BRACKETS FASTENED TO WOOD JAMBS WITH 5/6" X 1-5/8" LAG SCREWS.

7/16" I.D. ROUND PUSH NUT FASTENER.

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

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

2" GALV. STEEL TRACK FASTENED TO 12 GA GALV STEEL TRACK BRACKETS WITH EITHER (2) 1/4" DIA. RIVETS OR (1) 1/4" X 5/8" BOLT & NUT PER TRACK BRACKET.

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

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.

DOUBLE TRACK LOW HEADROOM OPTION

DOUBLE HORIZONTAL TRACK.

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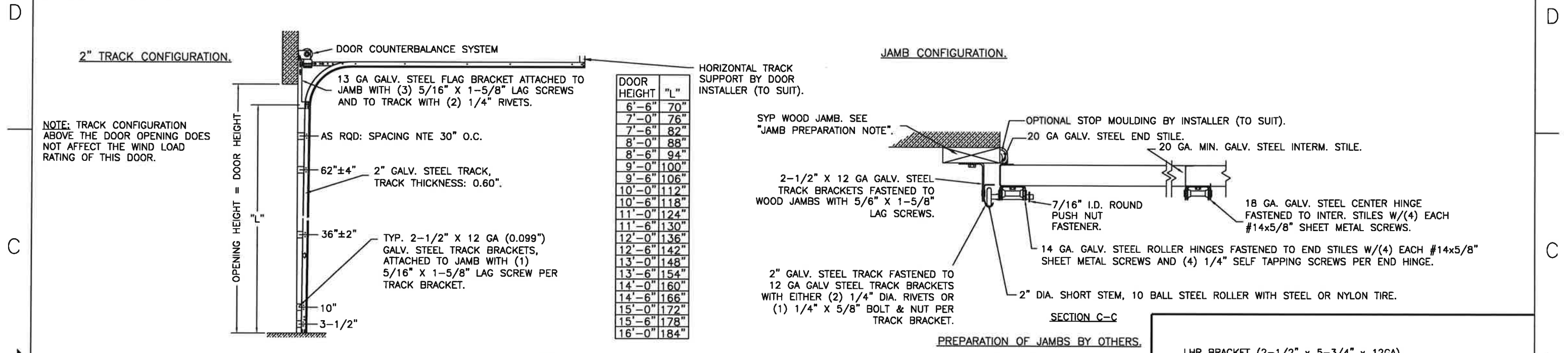Unless Stated Otherwise DIMENSIONS ARE IN INCHES.

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