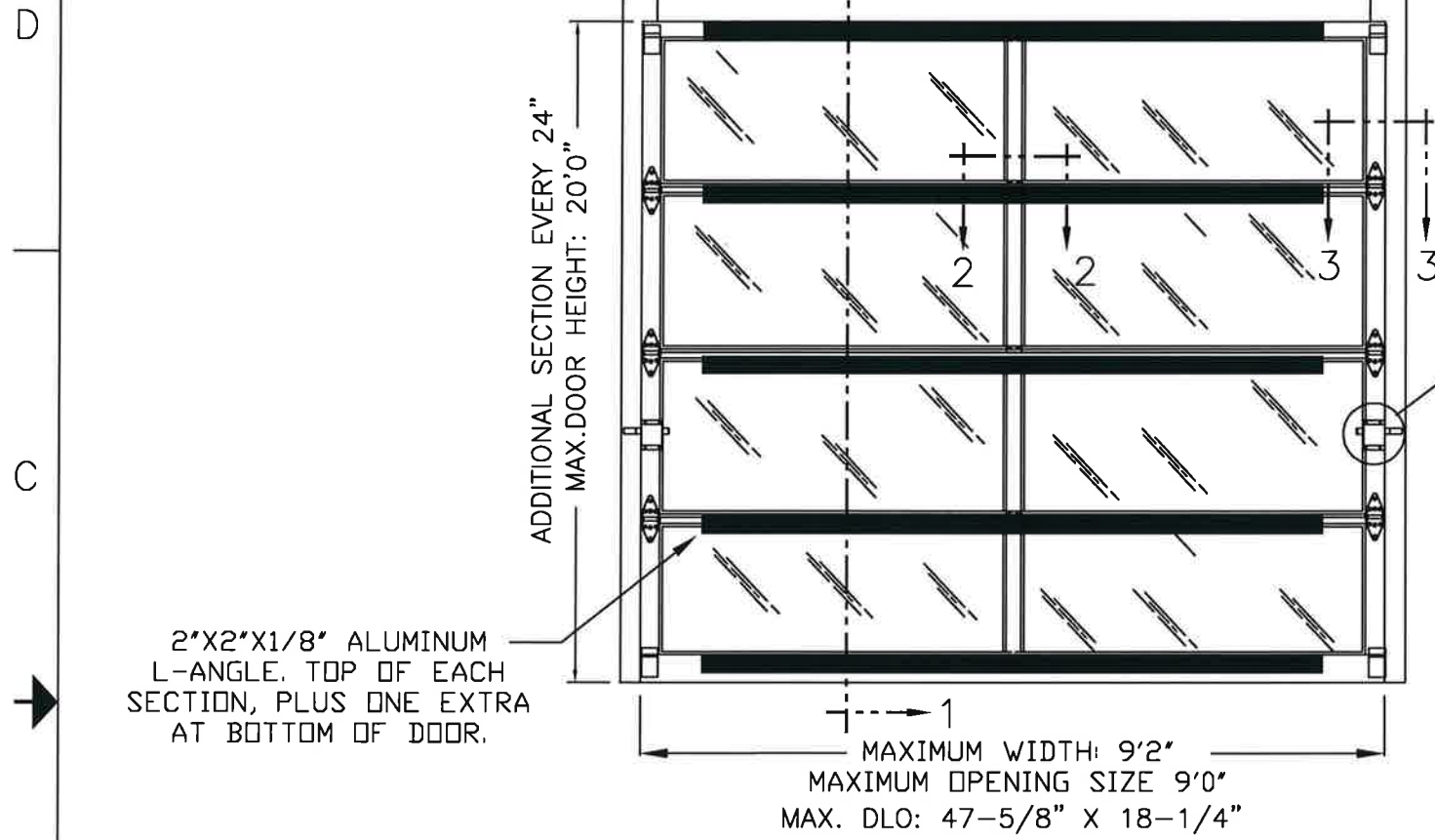


BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

THIS PRODUCT COMPLIES WITH THE 2018 IBC/IRC.

SHEET:
1 OF 4

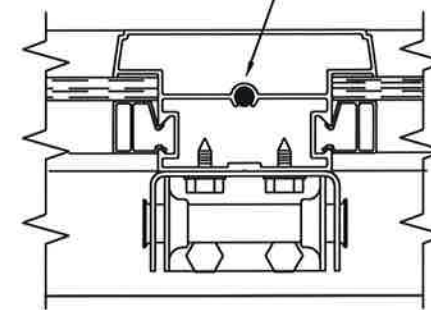
REVISIONS					DESCRIPTION
REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	
00		10/22		JDW	INITIAL RELEASE



2"x2"x1/8" ALUMINUM L-ANGLE. TOP OF EACH SECTION, PLUS ONE EXTRA AT BOTTOM OF DOOR.

MAXIMUM WIDTH: 9'2"
MAXIMUM OPENING SIZE 9'0"
MAX. DLO: 47-5/8" X 18-1/4"

SECTION 2 - 2



CENTER STILES FASTENED TO RAILS WITH FULL LENGTH 1/4" DIA. THREADED STEEL RODS AND FLANGE NUTS.

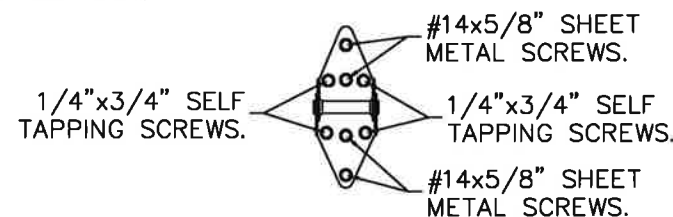
TWO POINT LOCKING.

CENTER HINGES (SEE DETAILS ON PAGE 4) ATTACHED TO INTERM. BOTTOM RAIL WITH (2) #14x5/8" SMS AND TO FIN ON INTERM. TOP RAIL WITH (2) 1/4"-20x1" HEX HEAD MACHINE SCREWS AND NUTS.

SECTIONS PER DOOR HEIGHT	
UP TO 6'0"	3
FROM 6'1" TO 8'0"	4
FROM 8'1" TO 10'0"	5
FROM 10'1" TO 12'0"	6
FROM 12'1" TO 14'0"	7
FROM 14'1" TO 16'0"	8
FROM 16'1" TO 18'0"	9
FROM 18'1" TO 20'0"	10

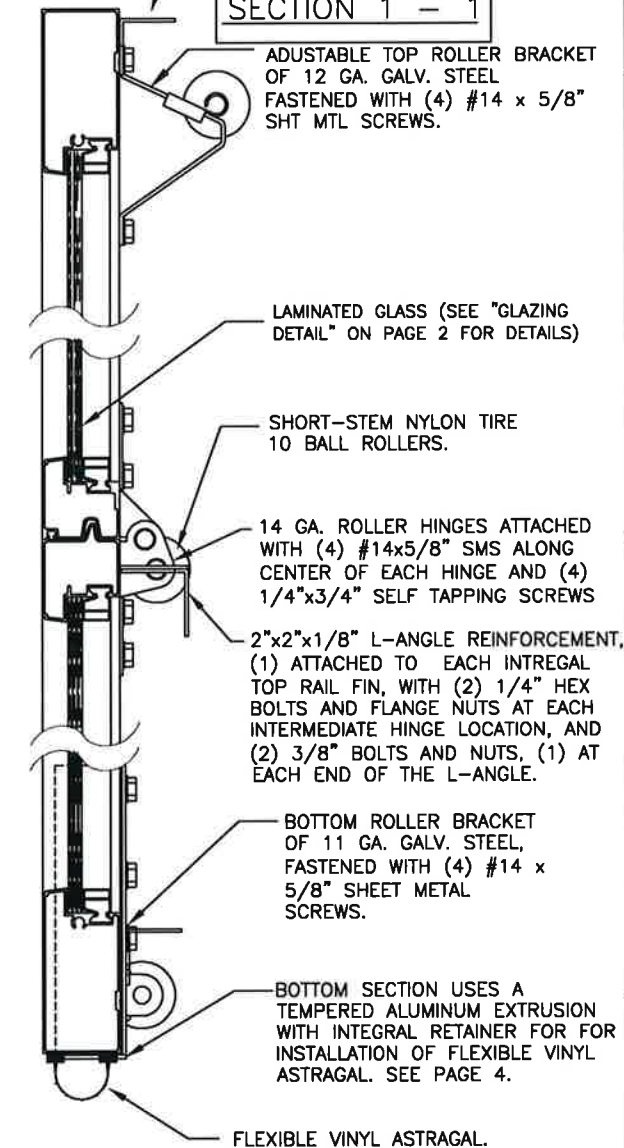
DOORS UP TO 4'8" SHALL HAVE (1) PANEL; DOORS 4'9" TO 9'2" SHALL HAVE AT LEAST (2) PANELS PER SECTION.

14 GAUGE ROLLER HINGE FASTENERS



2" x 2" x 1/8" ALUMINUM ANGLE ON TOP SECTION AND BOTTOM OF BOTTOM SECTION ATTACHED WITH (1) 1/4"x3/4" SELF-TAPPING SCREW PER STILE LOCATION.

SECTION 1 - 1



ADJUSTABLE TOP ROLLER BRACKET OF 12 GA. GALV. STEEL FASTENED WITH (4) #14 x 5/8" SHT MTL SCREWS.

LAMINATED GLASS (SEE "GLAZING DETAIL" ON PAGE 2 FOR DETAILS)

SHORT-STEM NYLON TIRE 10 BALL ROLLERS.

14 GA. ROLLER HINGES ATTACHED WITH (4) #14x5/8" SMS ALONG CENTER OF EACH HINGE AND (4) 1/4"x3/4" SELF TAPPING SCREWS

2"x2"x1/8" L-ANGLE REINFORCEMENT, (1) ATTACHED TO EACH INTEGRAL TOP RAIL FIN, WITH (2) 1/4" HEX BOLTS AND FLANGE NUTS AT EACH INTERMEDIATE HINGE LOCATION, AND (2) 3/8" BOLTS AND NUTS, (1) AT EACH END OF THE L-ANGLE.

BOTTOM ROLLER BRACKET OF 11 GA. GALV. STEEL, FASTENED WITH (4) #14 x 5/8" SHEET METAL SCREWS.

BOTTOM SECTION USES A TEMPERED ALUMINUM EXTRUSION WITH INTEGRAL RETAINER FOR FOR INSTALLATION OF FLEXIBLE VINYL ASTRAGAL. SEE PAGE 4.

FLEXIBLE VINYL ASTRAGAL.

DESIGN LOADS: +52.0, -58.0 PSF



END STILES FASTENED TO RAILS WITH FULL LENGTH 1/4" STEEL RODS AND FLANGE NUTS.

OPTIONAL 1" OVERLAP BOTH SIDES (NOT SHOWN).

INTERGAL FIN ON INTER. TOP RAILS NOTCH CUT AT END STILES.

SEE PAGE 2 FOR DIFFERENT JAMB CONFIGURATIONS.

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

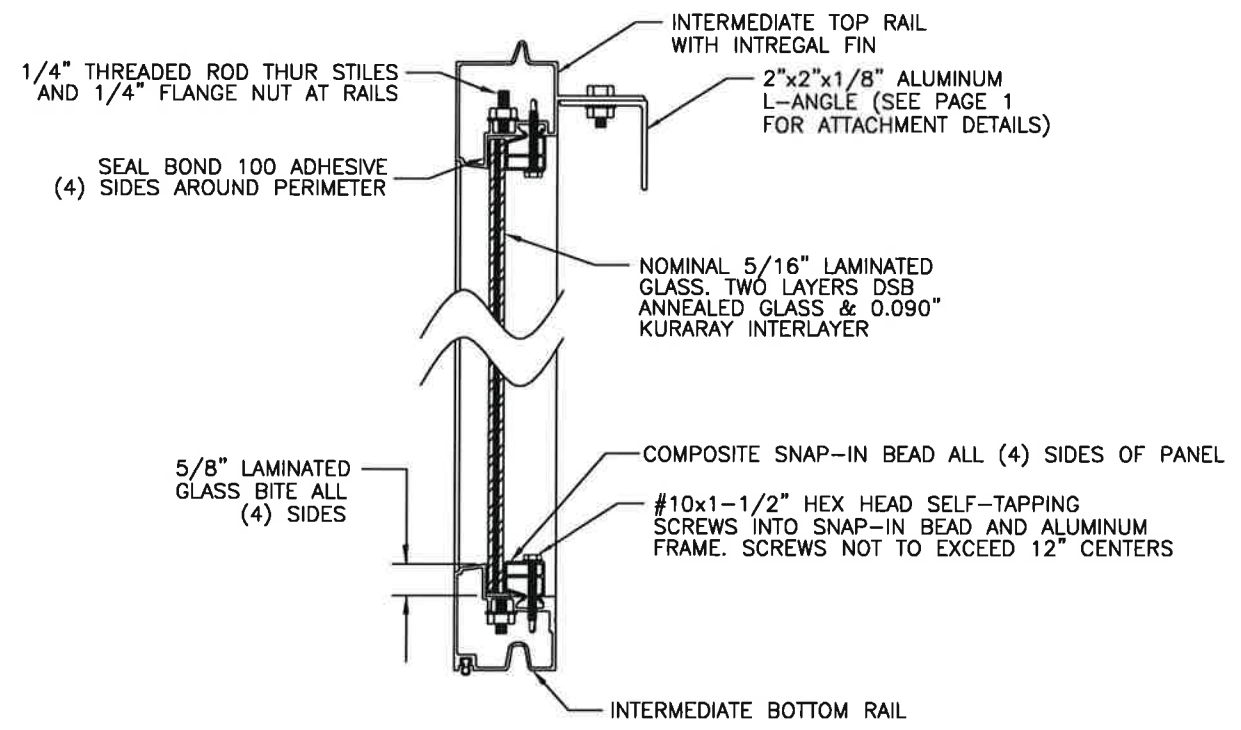
7/16" PUSH-NUT, ONE PER ROLLER.

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

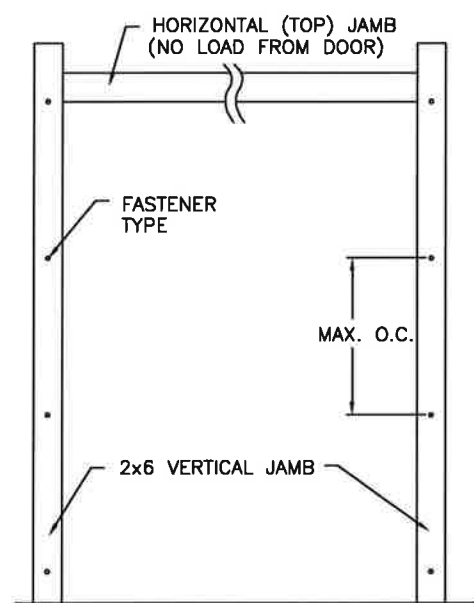
	8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853	CLOPAY WINDLOAD RATING	
		W8	
DESCRIPTION: M/N 904 9' WIDE +52/-58 PSF			
DRAWN BY: JDW	DATE: 10/10/22	SCALE:	DWG. SIZE B
CHECKED BY: JDW	DATE: 10/10/22	SHEET 1 OF 4	
DWG. NO.: 105611	VERSION: TDI		

BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

SHEET: 2 OF 4		REVISIONS			
REV. NO.	ZONE:	DATE:	ECN NO.	APPV:	DESCRIPTION
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GLAZING DETAIL
INTERMEDIATE SECTION SHOWN



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 +234 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?
BLOCK WALL	1/4" x 1-1/4" EMBED ULTRACON CONCRETE ANCHOR	7"	NO
GROUT-FILLED BLOCK WALL	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	11-3/4"	NO
2,846 PSI MIN. CONCRETE	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	24"	NO
2,000 PSI MIN. CONCRETE	1/4" x 1-3/4" EMBED ULTRACON CONCRETE ANCHOR	22-1/2"	NO
2,500 PSI MIN. CONCRETE	3/8" x 1-3/4" EMBED ITW TRUBOLT WEDGE CONCRETE ANCHOR WITH SYP 0.55 SG	22-1/4"	1" O.D.
WOOD FRAME (SYP 0.55 SG)	1/2" x 1-1/2" EMBED LAG SCREW WITH 1-3/8" O.D. WASHER	24"	YES
14 GA MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	12-1/4"	NO
12 GA MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	17"	NO
1/8" MIN. STEEL JAMB	1/4" -14 ITW BUILDEX TEKS SELF-DRILLING FASTENER	20-1/4"	NO

NOTE: FOR DOORS WITH CONTINUOUS OR REVERSE ANGLE TRACK, THESE VALUES CAN BE USED TO DIRECTLY ATTACH THE TRACK TO THE WALL.

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

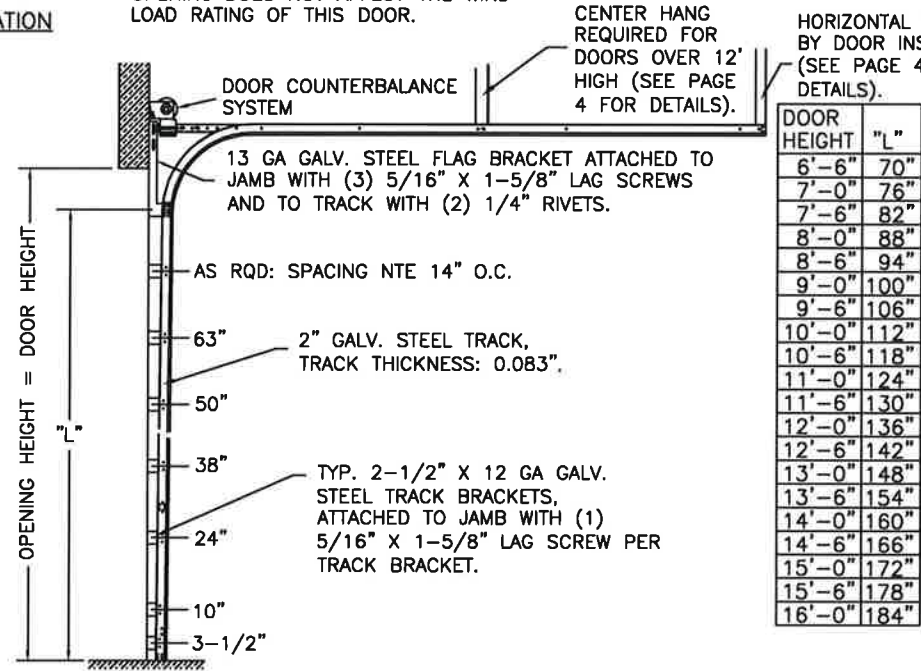
	8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853	CLOPAY WINDLOAD RATING W8	
	DESCRIPTION: M/N 904 9' WIDE +52/-58 PSF		
DRAWN BY: JDW	DATE: 10/10/22	SCALE:	DWG. SIZE: B
CHECKED BY: JDW	DATE: 10/10/22	SHEET 2 OF 4	
DWG. NO.: 105611	VERSION: TDI		

BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

SHEET:	REVISIONS					
3 OF 4	REV. NO.	ZONE:	DATE:	ECN NO.	APPVD:	DESCRIPTION
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2" TRACK CONFIGURATION

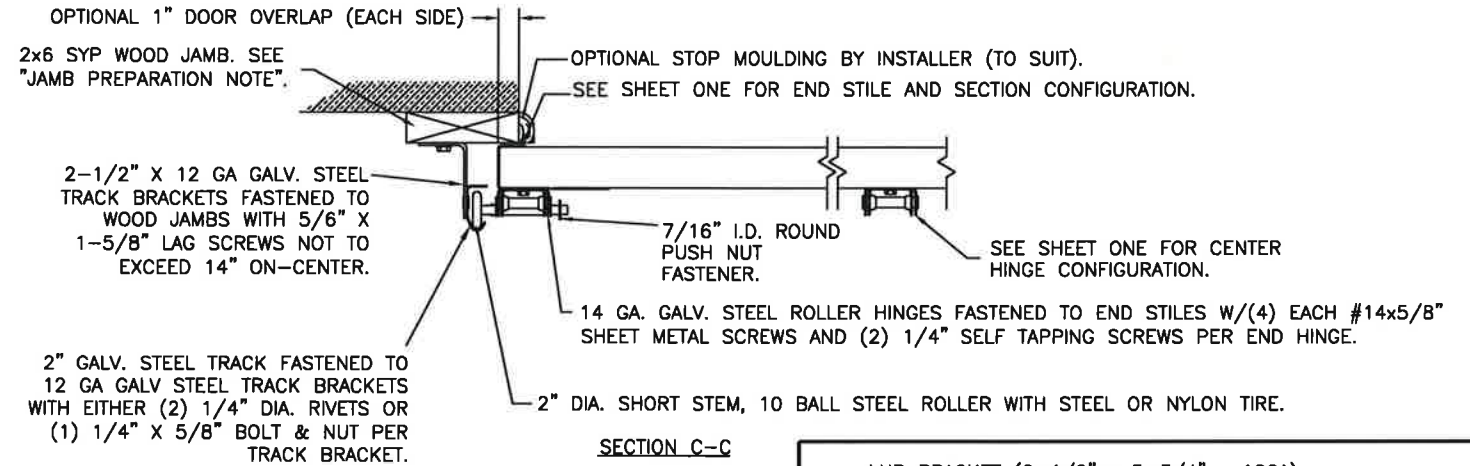
NOTE: HORIZONTAL TRACK CONFIGURATION ABOVE THE DOOR OPENING DOES NOT AFFECT THE WIND LOAD RATING OF THIS DOOR.



HORIZONTAL TRACK HANG BY DOOR INSTALLER (SEE PAGE 4 FOR DETAILS).

DOOR HEIGHT "L"	"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"

JAMB CONFIGURATION DOORS WITH 2" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.

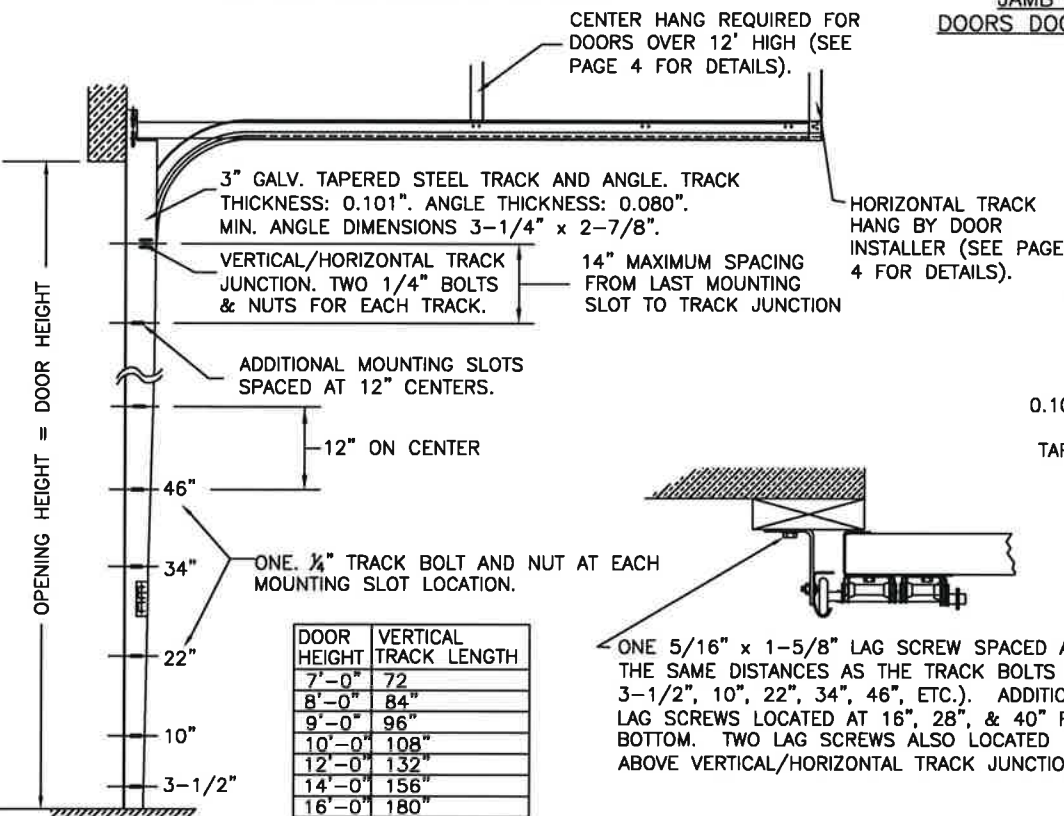
LHR BRACKET (2-1/2" x 5-3/4" x 12GA) ATTACHED WITH (2) 1/4" x 3/4" SELF TAPPING SCREWS. NOTE THAT LHR BRACKETS ARE ALSO USED WITH "DOUBLE END STILE" AS SHOWN IN ZONE B-3 SHEET 1.

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

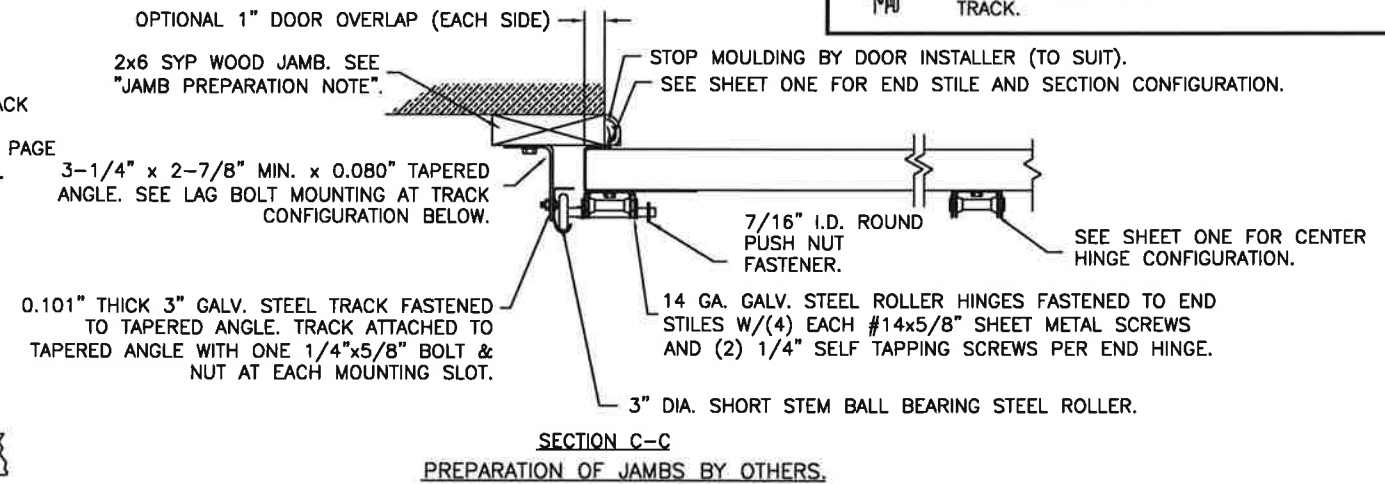


3" TRACK CONFIGURATION

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



JAMB CONFIGURATION DOORS WITH 3" TRACK.



SECTION C-C

PREPARATION OF JAMBS BY OTHERS.



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

Clopay CORPORATION	8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853	CLOPAY WINDLOAD RATING W8
DESCRIPTION: M/N 904 9' WIDE +52/-58 PSF		
DRAWN BY: JDW	DATE: 10/10/22	SCALE:
CHECKED BY: JDW	DATE: 10/10/22	SHEET 3 OF 4
DWG. NO.: 105611	VERSION: TDI	

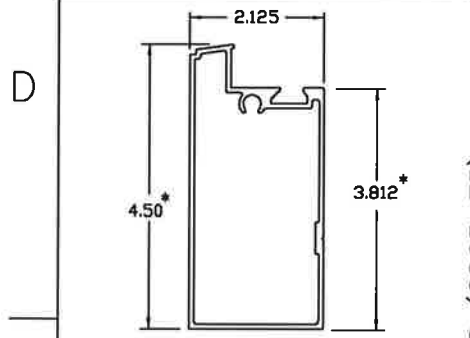
DWG. SIZE **B**

BRAND	MODEL
CLOPAY	904, 904U, AX, AXU
IDEAL	C4AL, C4ALU

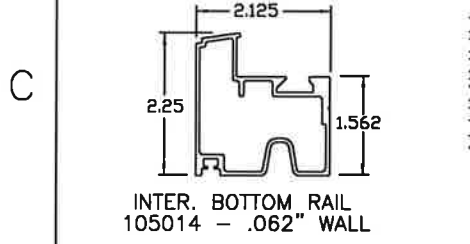
ALUMINUM PROFILES, HARDWARE & TRACK PARTS

SHEET: 4 OF 4

REVISIONS					DESCRIPTION
REV. NO.	ZONE	DATE	ECN NO.	APPVD:	
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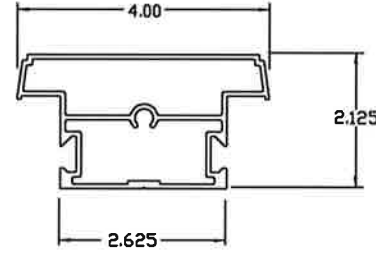


END STILE, BOTTOM & TOP RAIL
105008 - .075" WALL
* DOORS WITH 1" JAMB OVERLAP THESE
END STILE DIMENSIONS ARE 1" LONGER
(5.50 & 4.812)

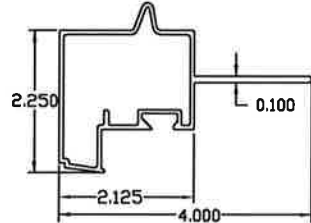


INTER. BOTTOM RAIL
105014 - .062" WALL

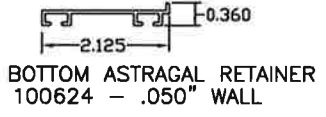
ALUMINUM PROFILES (6063-T5)



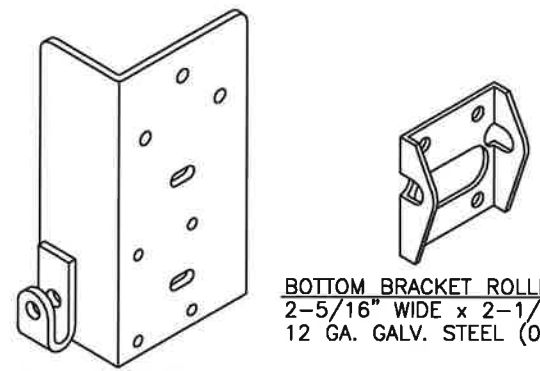
CENTER STILE
105011 - .075" WALL



INTER. TOP RAIL W/FIN
105012 - .062" WALL

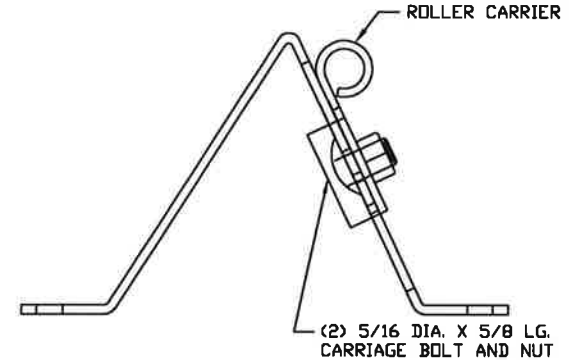


BOTTOM ASTRAGAL RETAINER
100624 - .050" WALL

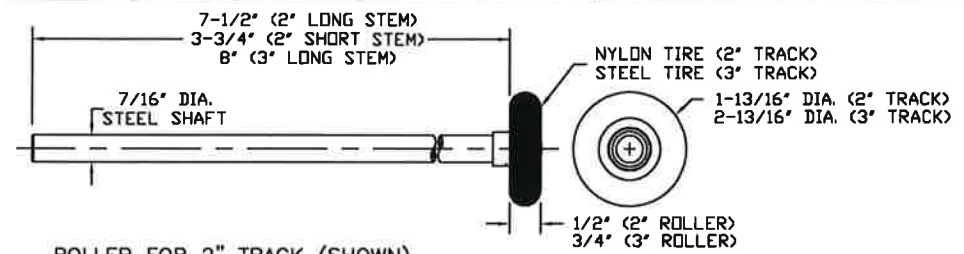


BOTTOM BRACKET ROLLER CARRIER
2-5/16" WIDE x 2-1/2" TALL
12 GA. GALV. STEEL (0.097" THICK)

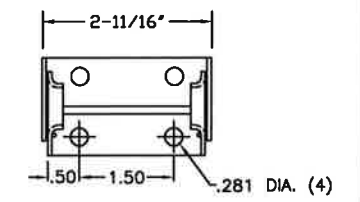
BOTTOM BRACKET
3-1/8" WIDE x 6" TALL x 1-7/8" DEEP
11 GA. GALV. STEEL (0.114" THICK)



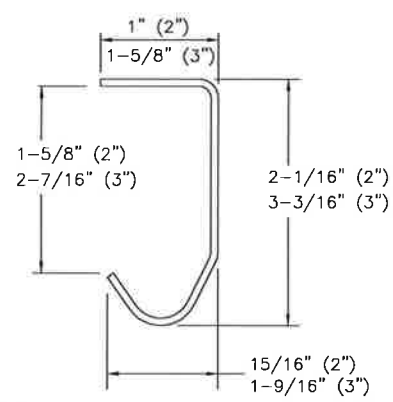
TOP ROLLER BRACKET
5-3/8" LONG x 3-1/8" TALL x 2-3/4" WIDE
MAIN PART: 12 GA. GALV STEEL (0.099")
ROLLER CARRIER: 13 GA. GALV STEEL (0.085")



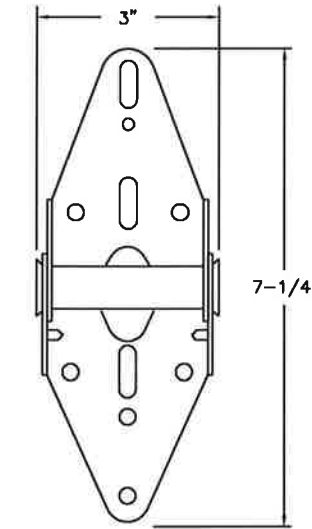
ROLLER FOR 2" TRACK (SHOWN)
ROLLER FOR 3" TRACK FOR DOORS OVER 800 LB.
OR OPTIONAL FOR DOORS LESS THAN 800 LB.



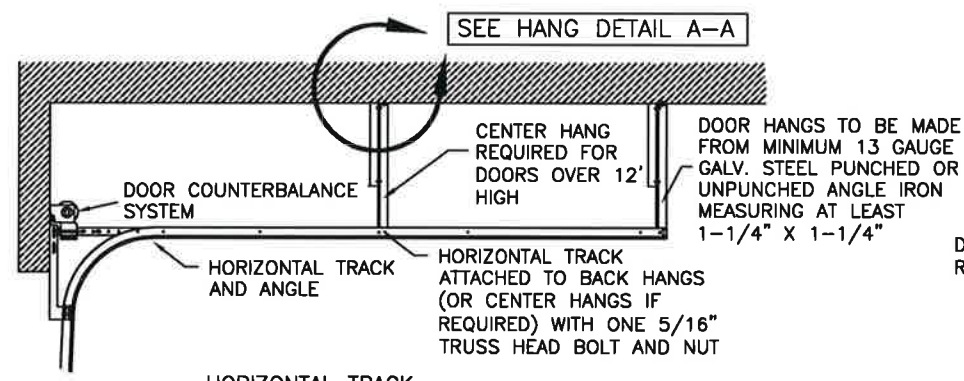
2-LEAF CENTER HINGE
14 GA. GALV. STEEL



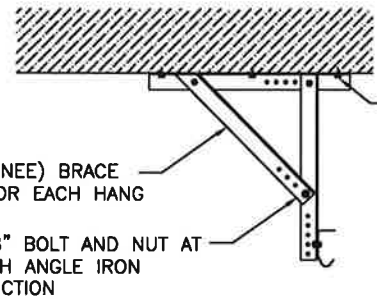
TRACK (2" AND 3")
0.075" OR 0.083" GALV. STEEL (2")
0.101" GALV. STEEL (3")



END ROLLER HINGE
14 GA. (0.071" MIN) GALV. STEEL
(8) 1/4" x 3/4" SELF-TAPPING SCREWS PER HINGE

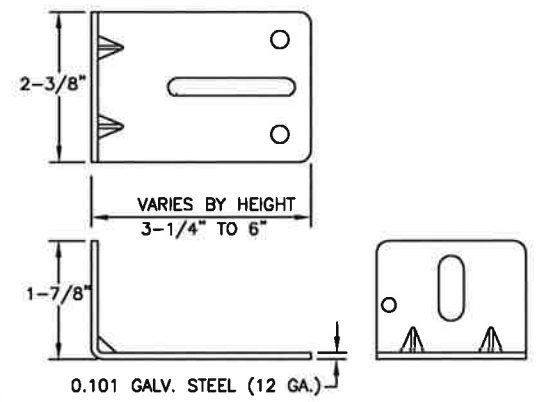


HORIZONTAL TRACK
STANDARD LIFT TRACK SHOWN.
LOW HEADROOM, HIGH LIFT AND VERTICAL LIFT
TRACK ALSO AVAILABLE.



HANG DETAIL A-A
HANGS CAN BE MOVED TO MATCH CEILING STRUCTURE

ANGLE IRON ATTACHMENT
WOOD (MIN 0.5 S.G.):
(3) MIN. 5/16" x 1-1/2" EMBED
LAG SCREWS WITH WASHER
2,000 MIN. PSI CONCRETE
(3) MIN. 1/4" x 1-3/4" EMBED
CONCRETE ANCHOR WITH WASHER
NOTE: SCREW EMBEDMENT TO EXCLUDE
STUCCO OR FALSE CEILINGS.



TRACK BRACKETS
ATTACHED TO VERTICAL TRACKS



DESIGN ENGINEER:
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	8585 Duke Boulevard Mason, OH 45040 USA Tel. No. 513-770-4800 Fax No. 513-770-4853	CLOPAY WINDLOAD RATING W8	
	DESCRIPTION: M/N 904 9' WIDE +52/-58 PSF		
DRAWN BY: JDW	DATE: 10/10/22	SCALE:	DWG. SIZE B
CHECKED BY: JDW	DATE: 10/10/22	SHEET 4 OF 4	
DWG. NO.: 105611	VERSION: TDI		