

Notes:

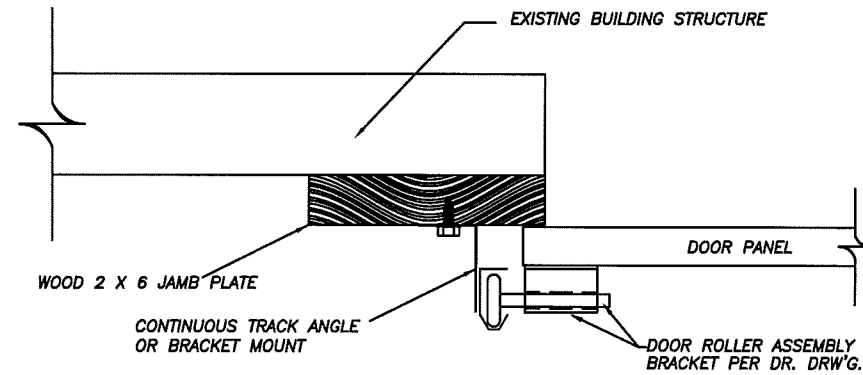
- There are two approved methods for attachment of the door to the building;
 - Attaching a 2x6 to the building structure using schedule 1.0, 1.1, 1.2 or 1.3 (see pg 1 of 2). The 2x6 is always southern pine on this drawing.
 - Mount the track directly to the building structure using schedule 2.0, 2.1, 2.2, 2.3 or Welding (see page 2 of 2). Mounting directly to building structure is for commercial doors only, since 1 inch of door overlap with the building is required.
- Determine the positive design windload for a particular door, rounded down to the nearest 5 pounds per square foot. This load can be found on the bottom right corner of the applicable drawing.
- If the framing is made of wood, determine the type of lumber being used. The charts include southern pine and spruce-pine-fir (Schedule 1.0).
- 2x6 wood jamb may be counter bored up to 1/2" deep to provide a flush mounting surface.
- 2x6 wood jambs may be installed over drywall, longer anchors must be used to insure 1-1/2" minimum embedment
- Anchors to be spaced evenly between the header and the floor.
- First Anchor (bottom) starting at no more than half of the maximum on-center distance.
- Top Anchor installed at least as high as the door opening.
- Wood jamb plate shall be minimum 2x6 no. 1 grade southern pine.
- Door Must overlap a minimum of 7/16" per jamb, if the door does not overlap the jamb, then stop molding must be used and nailed on using #6d nails spaced every 6 to 9". Headless finish nails may not be used.
- Building engineer/Architect is responsible for ensuring that the building structure is sufficient for the loads applied.

DOOR FRAME PLATE CONNECTION SCHEDULE 1.0

3/8" x 3" Lag Bolt 1-1/2" Min Embed
 Min 1-1/8" O.D. Steel Washer per lag
 Minimum edge spacing of 1-1/2" for all
 Holes Should Be Pre Drilled 1/4"

WOOD CONSTRUCTION		Southern Pine S.G.=.55 Maximum Spacing (inches)						
Design Load (PSF)	Door Width(ft)							
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"	
10	24	24	24	24	24	24	24	
15	24	24	24	24	24	24	24	
20	24	24	24	24	24	24	24	
25	24	24	24	24	24	24	24	
30	24	24	24	24	24	24	24	
35	24	24	24	24	24	23	21	
40	24	24	24	24	23	20	18	
45	24	24	24	23	20	18	16	
50	24	24	24	21	18	16	14	

WOOD CONSTRUCTION		Spruce-Pine-Fir S.G.=.42 Maximum Spacing (inches)						
Design Load (PSF)	Door Width(ft)							
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"	
10	24	24	24	24	24	24	24	
15	24	24	24	24	24	24	24	
20	24	24	24	24	24	24	24	
25	24	24	24	24	24	24	22	
30	24	24	24	24	23	21	19	
35	24	24	24	23	20	18	16	
40	24	24	23	20	17	15	14	
45	24	24	21	18	15	14	12	
50	24	22	19	16	14	12	11	



WOOD JAMB PLATE TO BUILDING STRUCTURE

DOOR FRAME PLATE CONNECTION SCHEDULE 1.1

Load Table Based on:
 ANKR-TITE Wedge bolt 3/8"x3-1/2" with 1"-3/4" min embed.
 ANKR-TITE Stud bolt 3/8"x3-1/2" with 1"-3/4" min embed.
 POWER STUD anchor 3/8"x3-1/2" with 1"-5/8" min embed.
 POWER LOK/BOLT anchor 3/8"x3-1/2" with 1"-5/8" min embed.
 Minimum edge spacing of 2-1/2" for all

Design Load (PSF)	Concrete Construction Maximum Spacing (inches)						
	Min 2000 PSI Concrete						
	Door Width(ft)						
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"
10	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24
25	24	24	24	24	24	22	20
30	24	24	24	23	20	18	16
35	24	24	23	20	17	15	14
40	24	24	20	17	15	13	12
45	24	22	18	15	13	12	11
50	22	19	16	14	12	11	10

Washer with a minimum of 1-1/8" OD or greater required on all fasteners.

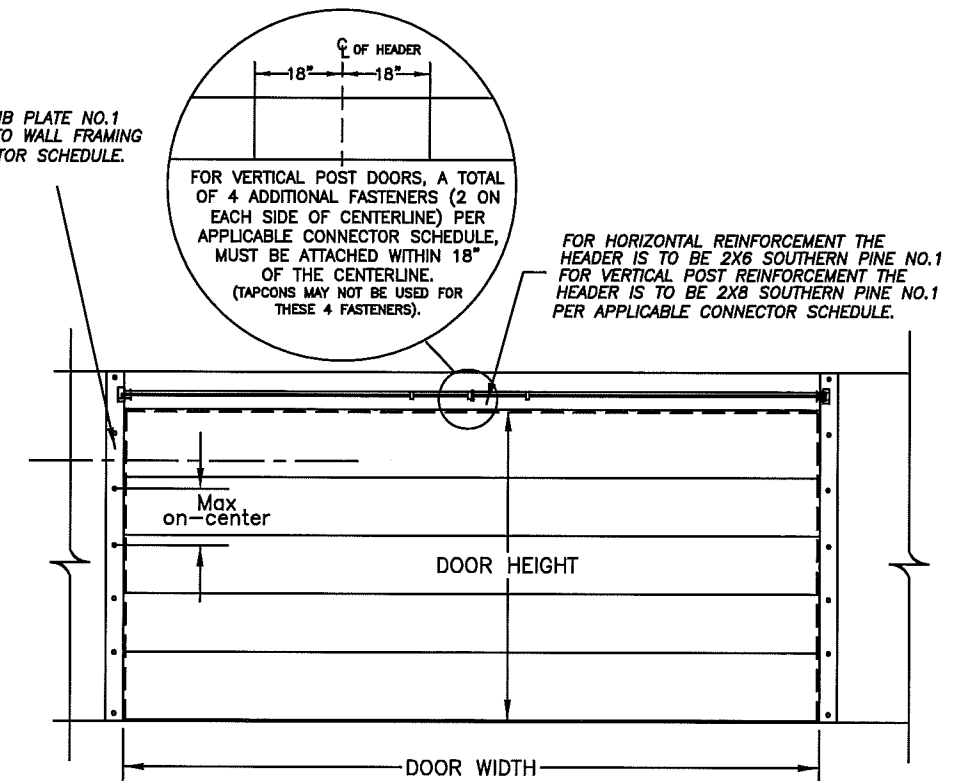
DOOR FRAME PLATE CONNECTION SCHEDULE 1.2

Load Table Based on:
 ITW Ramset/Red Head Tapcon 1/4"x3" with 1-3/4" min embed
 ITW Ramset/Red Head Tapcon 5/16"x3" with 1-3/4" min embed
 Minimum edge spacing of 2-1/2" for all

Design Load (PSF)	Concrete Construction Maximum Spacing (inches)						
	Min 3000 PSI Concrete						
	Door Width(ft)						
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"
10	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24
30	24	24	24	24	24	23	21
35	24	24	24	24	22	20	18
40	24	24	24	22	20	17	16
45	24	24	23	20	17	15	14
50	24	24	21	18	16	14	12

Washer with a minimum of 1" OD or greater required on all fasteners.

2X6 SOUTHERN PINE JAMB PLATE NO.1
 OR BETTER CONNECTED TO WALL FRAMING
 PER APPLICABLE CONNECTOR SCHEDULE.



DOOR ELEVATION

(INTERIOR ELEVATION)

DOOR FRAME PLATE CONNECTION SCHEDULE 1.3

Load Table Based on ITW Ramset/Red Head Tapcon Self Tapping 1/4" x 3" Concrete Anchor With 1-1/2" Embed (min 5/8" O.D. Steel Washer per Anchor)
 Minimum edge spacing of 2-1/2"

Design Load (PSF)	Masonry/Concrete Construction						
	Grout Filled CMU Block Maximum Spacing (inches)						
	Door Width(ft)						
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"
10	24	24	24	24	24	24	23
15	24	24	24	22	19	17	15
20	24	23	19	16	14	12	11
25	20	18	15	13	11	10	9
30	17	15	12	11	9	8	X
35	14	13	11	9	8	X	X
40	12	11	9	8	X	X	X
45	11	10	8	X	X	X	X
50	10	9	X	X	X	X	X



PROFESSIONAL ENGINEER'S
 SEAL PROVIDED ONLY FOR
 VERIFICATION OF WINDLOAD
 CONSTRUCTION DETAILS

JOHN E. SCATES, P.E.
 3121 FAIRGATE
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Rev.	By	Date	Description	Rev.	By	Date	Description
0	BR	2/25/04	NEW DRAWING	8			
1	BR	6/23/05	removed 1-1/2" min embed	9			
2	BR	4/25/06	Added Stop Molding notes	10			
3	BR	5/30/06	Added the hole for up spurt	11			
4	BR	4/26/08	Updated over the end of the 2	12			
5	BR	7/13/12	added sub 8 and sub 9 and 10	13			
6				14			
7				15			

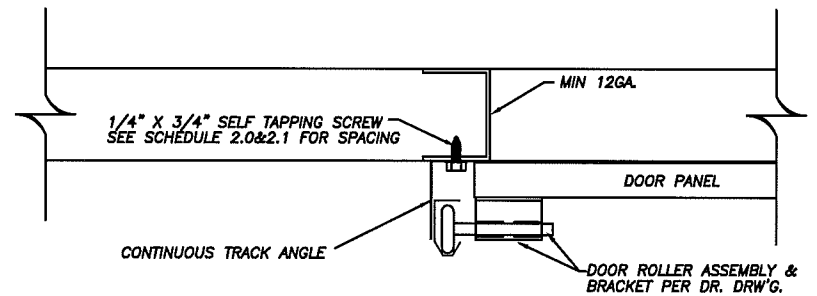
SCALE	N.T.S.	DATE
DRAWN BY	BJR	01-12-04
INITIAL CHK.		
FINAL CHK.		
ENGR.		
APPR. BY		

DESCRIPTION	
TITLE	Jamb Plate Fastener Schedule
DWG. NO.	RCWL-0001
SHT. 1 OF 2	REV. 5

Mid-America Door Company PONCA CITY, OK

Notes:

- There are two approved methods for attachment of the door to the building;
 - Attaching a 2x6 to the building structure using schedule 1.0, 1.1, 1.2 or 1.3 (see pg1 of 2). The 2 X6 is always southern pine on this drawing.
 - Mount the track directly to the building structure using schedule 2.0, 2.1, 2.2, 2.3 or Welding (see page 2 of 2). Mounting directly to building structure is for commercial doors only, since 1 inch of door overlap with the building is required.
- Determine the positive design windload for a particular door, rounded down to the nearest 5 pounds per square foot. This load can be found on the bottom right corner of the applicable drawing.
- Anchors to be spaced evenly between the header and the floor.
- First Anchor (bottom) starting at no more than half of the maximum on-center distance.
- Top Anchor installed at least as high as the door opening.
- Door Must overlap a minimum of 7/16" per jamb, if the door does not overlap the jamb, then stop molding must be used and nailed on using #6d nails spaced no greater than 9 inches apart. Headless finish nails may not be used.
- Building engineer/Architect is responsible for ensuring that the building structure is sufficient for the loads applied.
- More fasteners than shown on the door drawings may be required. the quantities shown on this drawing prevail.

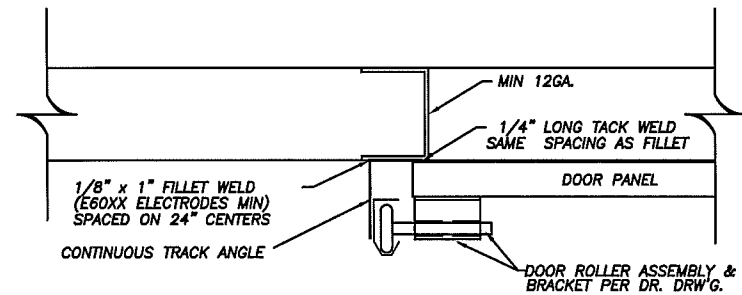


STEEL JAMB 1/4"X3/4" SELF TAPPING SCREW DETAIL

1/4"X3/4" SELF TAPPING SCREW CONNECTION SCHEDULE 2.0

Design Load (PSF)	12GA. STEEL CONSTRUCTION						
	Maximum Spacing (inches)						
	Opening Width(ft)						
	9'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
10	24	24	24	24	24	24	24
15	24	24	24	24	22	20	18
20	24	24	22	19	17	15	13
25	21	21	18	15	13	12	11
30	18	18	15	13	11	10	9
35	15	15	13	11	9	8	7
40	13	13	11	9	8	7	6
45	12	12	10	8	7	6	6
50	11	11	9	7	6	6	5

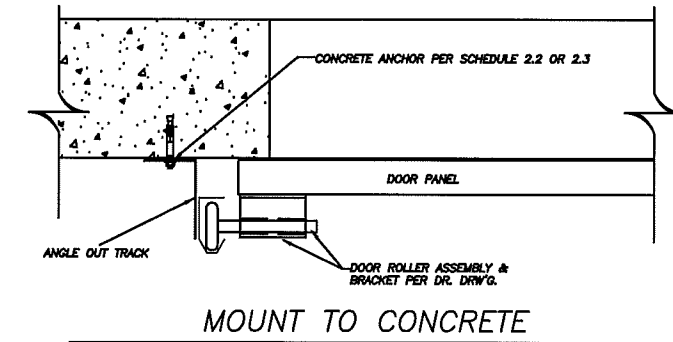
Table values referenced from DASMA TDS 161



STEEL JAMB FILLET WELD DETAIL

- Use all necessary precautions when welding galvanized steel.
- Welds to be evenly spaced between header and floor.
- First (bottom) weld starting at no more than half of the maximum on center distance. Highest weld at least as high as the door opening.
- All welds should be performed by a certified welder or inspected by a certified welding inspector to verify the integrity of the weld.
- Fillet welds should have a straight or convex face surface.
- Tack weld top of the angle at the same spacing to prevent rotation of the track angle.
- Cracks and blemishes shall be ground to a smooth contour and checked for soundness.

SOURCE: DASMA TDS 161



DOOR FRAME PLATE CONNECTION SCHEDULE 2.2

Load Table Based on :
 ANKR-TITE Wedge bolt 3/8"x3-1/2" with 1"-3/4" min embed.
 ANKR-TITE Stud bolt 3/8"x3-1/2" with 1"-3/4" min embed.
 POWER STUD anchor 3/8"x3-1/2" with 1"-5/8" min embed.
 POWER LOK/BOLT anchor 3/8"x3-1/2" with 1"-5/8" min embed.
 Minimum edge spacing of 2-1/2" for all.

Design Load (PSF)	Concrete Construction						
	Maximum Spacing (inches)						
	Min 2000 PSI Concrete						
	Opening Width(ft)						
	9'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"
10	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24
25	24	24	24	24	24	22	20
30	24	24	24	23	20	18	16
35	24	24	23	20	17	15	14
40	24	24	20	17	15	13	12
45	24	22	18	15	13	12	11
50	22	19	16	14	12	11	10

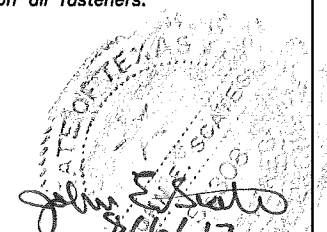
Washer with a minimum of 5/8" OD or greater required on all fasteners.

DOOR FRAME PLATE CONNECTION SCHEDULE 2.3

Load Table Based on:
 ITW Ramset/Red Head Tapcon 1/4"x3" with 1-3/4" min embed
 ITW Ramset/Red Head Tapcon 5/16"x3" with 1-3/4" min embed
 Minimum edge spacing of 2-1/2" for all

Design Load (PSF)	Concrete Construction						
	Maximum Spacing (inches)						
	Min 3000 PSI Concrete						
	Door Width(ft)						
	9'-2"	10'-2"	12'-2"	14'-2"	16'-2"	18'-2"	20'-2"
10	24	24	24	24	24	24	24
15	24	24	24	24	24	24	24
20	24	24	24	24	24	24	24
25	24	24	24	24	24	24	24
30	24	24	24	24	24	24	21
35	24	24	24	24	23	20	18
40	24	24	24	23	20	18	16
45	24	24	24	20	18	16	14
50	24	24	21	18	16	14	13

Washer with a minimum of 5/8" OD or greater required on all fasteners.



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Rev.	By	Date	Description	Rev.	By	Date	Description	SCALE	N.T.S.	DATE
0	BJR	2/25/04	NEW DRAWING	8						
1	BJR	6/23/04	revised (1-1/2" min embed)	9				DRAWN BY	BJR	01-12-04
2	BJR	4/25/04	Added Stop Molding notes	10				INITIAL CHK.		
3	BJR	6/30/04	Added the table for all sizes	11				FINAL CHK.		
4	BJR	4/26/10	Changed over the end flow 2	12				ENGR.		
5	BJR	7/13/12	Changed the end flow table	13				APPR. BY		
6				14						
7				15						

Mid-America Door Company PONCA CITY, OK

DESCRIPTION: Jamb Plate Fastener Schedule

TITLE: Jamb Plate Fastener Schedule

DWG. NO.: RCWL-0001

SHT. 2 OF 2

REV. 5

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