

Notes:

1. There are two approved methods for attachment of the door to the building;

A. Attaching a 2x6 to the building structure using schedule 1.0, 1.1 or 1.3 (see pg1of 2). The 2 X6 is always southern pine on this drawing.

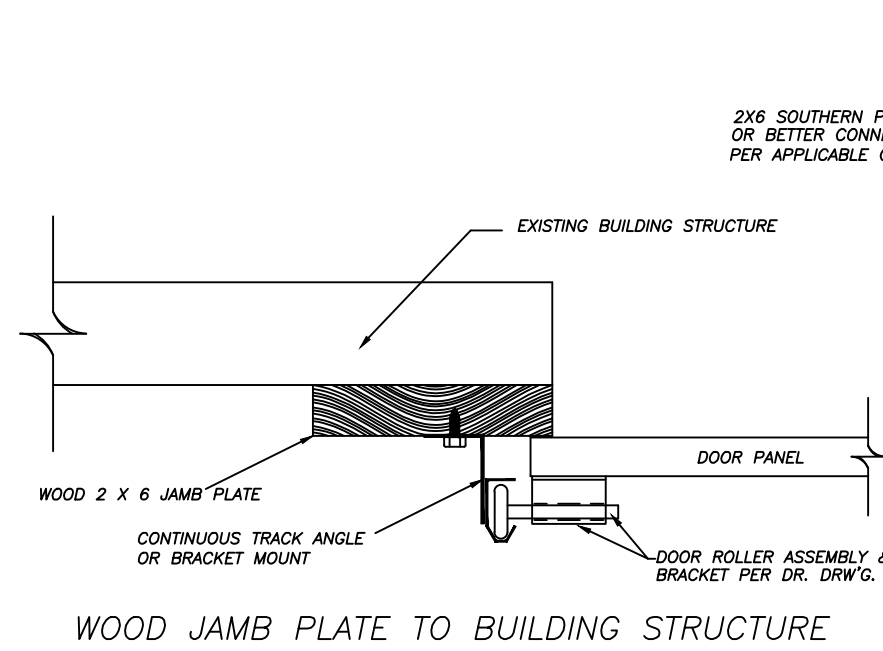
B. Mount the track directly to the building structure using schedule 2.0,2.1,2.2, or Welding (see page 2 of 2). Mounting directly to building structure is for commercial doors only, since 1 inch of door overlap with the building is required.
2. Determine the positive design windload for a particular 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.
3. 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).
4. 2x6 wood jamb may be counter bored up to 1/2" deep to provide a flush mounting surface.
5. 2x6 wood jambs may be installed over drywall, longer anchors must be used to insure 1-1/2" minimum embedment
6. Anchors to be spaced evenly between the header and the floor.
7. First Anchor (bottom) starting at no more than half of the maximum on-center distance.
8. Top Anchor Installed at least as high as the door opening.
9. Wood jamb plate shall be minimum 2x6 no. 1 grade southern pine.
10. 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.
11. 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



DOOR FRAME PLATE CONNECTION SCHEDULE 1.1

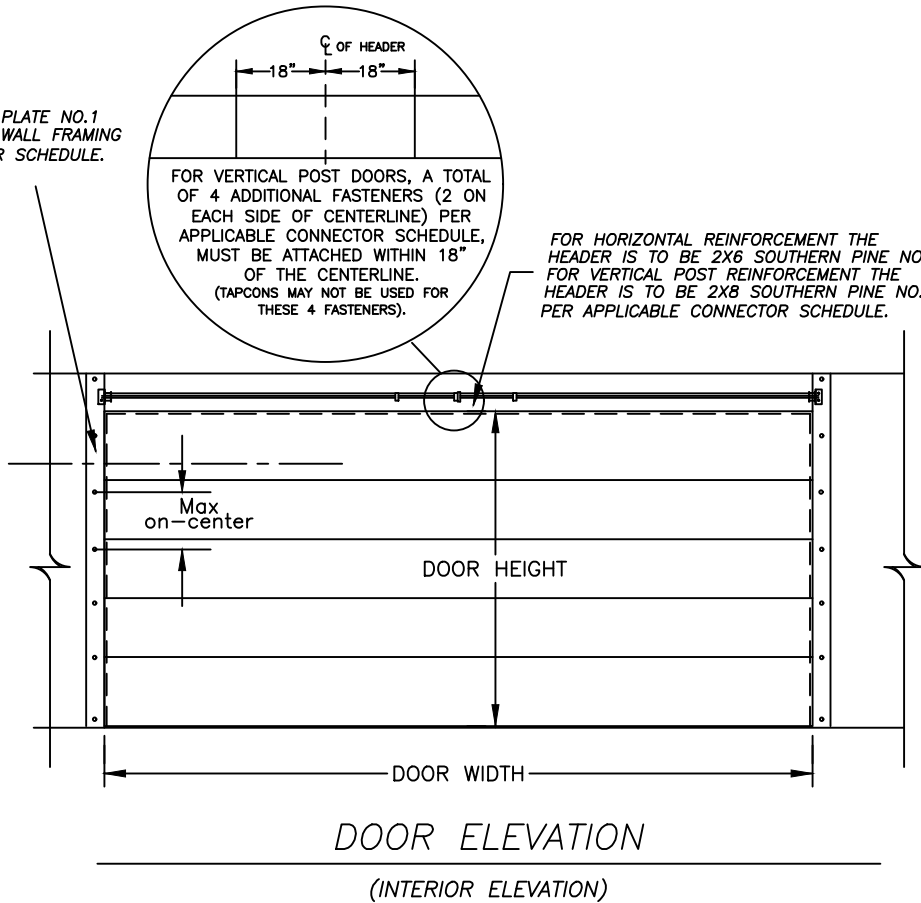
Load Table Based on :

- 1/4" TAPCON+ (PLUS) X 2" EMBED.
- 1/4" POWERS WEDGE-BOLT+ X 1.75" EMBED.
- 1/4" SIMPSON TITENHD X 1.75" EMBED.
- 1/4" DEWALT SCREW-BOLT+ X 1.75" EMBED.
- 1/4" ITW TRUBOLT X 1.75" EMBED.
- 1/4" KwikBOLT3 X 2" EMBED.

Minimum edge spacing of 2-1/2" for all

Concrete Construction Maximum Spacing (inches)				Min 2500 PSI Concrete			
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	22
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 1-1/8" OD or greater required on all fasteners.



DOOR FRAME PLATE CONNECTION SCHEDULE 1.3

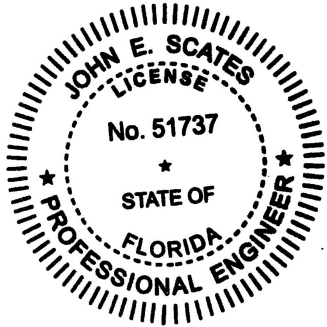
Load Table Based on:

1/4" DEWALT/POWERS TAPPER+ X 1.5 EMBED

Minimum edge spacing of 3"

Masonry/Concrete Construction		2000 PSI Grout Filled CMU Block 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	22	19	17	
15	24	23	19	16	14	13	11	
20	19	17	14	12	11	9	8	
25	15	14	11	10	8	X	X	
30	13	11	9	8	X	X	X	
35	11	10	8	X	X	X	X	
40	9	8	X	X	X	X	X	
45	8	X	X	X	X	X	X	
50	X	X	X	X	X	X	X	

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



Digitally signed by John E Scates

Date: 2021.09.23 12:27:17 -05'00'

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

PROFESSIONAL ENGINEER'S
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VERIFICATION OF WINDLOAD
CONSTRUCTION DETAILS

JOHN E. SCATES, P.E.
2560 King Arthur Blvd #124-24
Lewisville, TX 75056
FL P.E. # 51737
TX P.E. # 56308, F-2203

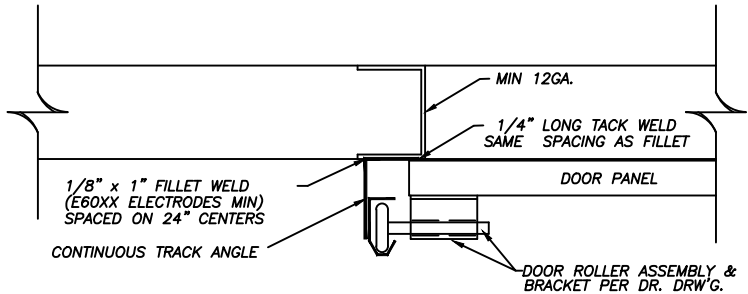
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Rev.	By	Date	Description	Rev.	By	Date	Description	SCALE	N.T.S.	DATE
0	BR	2/25/04	NEW DRAWING	8				DRAWN BY	BJR	01-12-04
1	BR	6/23/06	removed 1(-1/4" max embed)	9				INITIAL CHK.		
2	BR	4/25/06	Added Shop Modeling notes	10				FINAL CHK.		
3	BR	6/30/06	Added the table for w/1 sp/42	11				ENGR.		
4	BR	4/25/10	Added over the end Rev 2	12				APPR. BY		
5	BR	7/13/12	Added note 6 and not updated table	13						
6	BR	12/11/12	Added note 6 and not updated table	14						
7				15						

Mid-America Door Company		PONCA CITY, OK	
DESCRIPTION		TITLE	
Jamb Plate Fastener Schedule		RCWL-0001	
DWG. NO.		SHT. 1 OF 2	
REV.		6	

Notes:

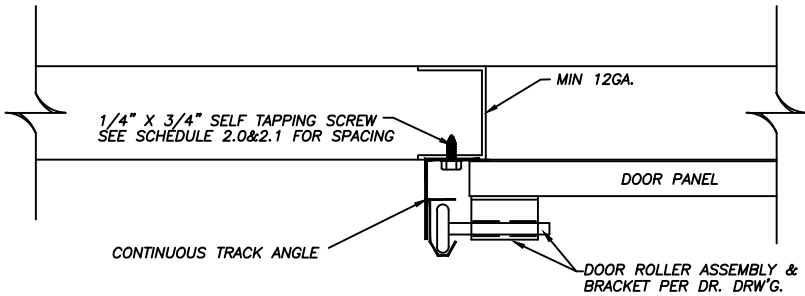
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- B. Mount the track directly to the building structure using schedule 2.0,2.1,2.2 or Welding (see page 2 of 2). Mounting directly to building structure is for commercial doors only, since 1 inch of door overlap with the building is required.
2. Determine 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.
3. Anchors to be spaced evenly between the header and the floor.
4. First Anchor (bottom) starting at no more than half of the maximum on-center distance.
5. Top Anchor Installed at least as high as the door opening.
6. 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.
7. Building engineer/Architect is responsible for ensuring that the building structure is sufficient for the loads applied.
8. More fasteners than shown on the door drawings may be required. the quantities shown on this drawing prevail.



STEEL JAMB FILLET WELD DETAIL

1. Use all necessary precautions when welding galvanized steel.
2. Welds to be evenly spaced between header and floor.
3. 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.
4. All welds should be performed by a certified welder or inspected by a certified welding inspector to verify the integrity of the weld.
5. Fillet welds should have a straight or convex face surface.
6. Tack weld toe of the angle at the same spacing to prevent rotation of the track angle.
7. Cracks and blemishes shall be ground to a smooth contour and checked for soundness.

SOURCE: DASMA TDS 161



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

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

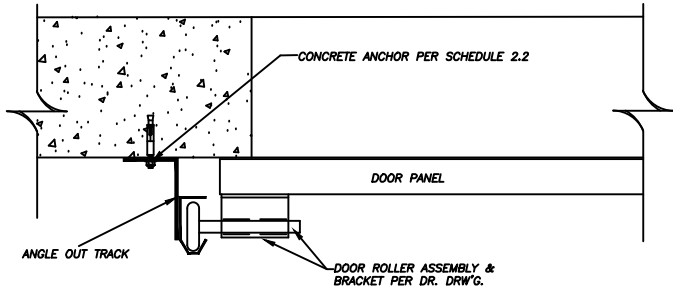
12GA. STEEL CONSTRUCTION		Maximum Spacing (inches)						
Design Load (PSF)	Opening Width(ft)							
	9'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
10	24	24	24	24	24	24	24	
15	24	24	24	24	22	20	18	
20	24	24	22	19	17	15	13	
25	21	21	18	15	13	12	11	
30	18	18	15	13	11	10	9	
35	15	15	13	11	9	8	7	
40	13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

1/4"X3/4" SELF TAPPING SCREW CONNECTION SCHEDULE 2.1

3/16" STEEL CONSTRUCTION		Maximum Spacing (inches)						
Design Load (PSF)	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	20	24	24	24	24	24	
30	24	24	24	24	24	24	22	
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45	24	24	24	21	18	16	15	
50	24	24	22	19	16	15	13	

Table values referenced from DASMA TDS 161



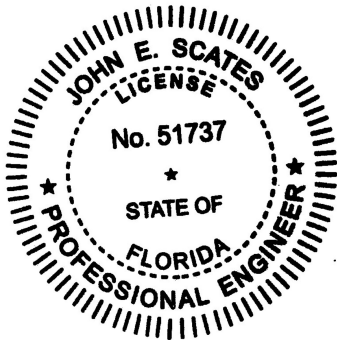
MOUNT TO CONCRETE

DOOR FRAME PLATE CONNECTION SCHEDULE 2.2

- Load Table Based on :
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- 1/4" ITW TRUBOLT X 1.75" EMBED.
- 1/4" IKWIKBOLT3 X 2" EMBED.
- Minimum edge spacing of 2-1/2" for all.

Concrete Construction		Min 2500 PSI Concrete						
Design Load (PSF)	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	
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2	BR	4/25/08	Added Shop Modeling notes	10				FINAL CHK.		
3	BR	6/30/09	Added the table for rgl aprt	11				ENGR.		
4	BR	4/25/10	Copied over the old Rev 2	12				APPR. BY		
5	BR	7/13/12	changed the bolt plate size & updated table	13						
6	BR	12/11/17	changed the bolt plate size & updated table	14						
7				15						

 Mid-America Door Company		PONCA CITY, OK	
DESCRIPTION			
TITLE		DWG. NO.	SHT. 2 OF 2
Jamb Plate Fastener Schedule		RCWL-0001	REV. 6

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