



Rockwood Stall Series

Assembly & Installation Instructions



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Before You Start

NOTE: All measurements are based on finished wood sizes. Example 2" x 6" finished size is 1 ½" x 5 ½"

Questions to Be Answered...

Careful consideration when designing your barn layout will save you time, money, and frustration.

Do you want the horses to see one another?

- Solid partition walls
- Privacy partition walls
- Grilled partition walls

Do you want to have the horses look out the front of the stalls? Are you concerned with ventilation?

- V door
- Full grill v door
- Grill top door
- Full grill door
- Half swing door
- Full swing door

Do you want to be able to feed from outside the stall?

- Swing-out feed door
- Feed opening

What type of latch do you prefer?

- Top latch
- Locking horseshoe latch
- Slide latch

What type of wood are you using? 1 ½" width is the standard thickness of the u-channel.

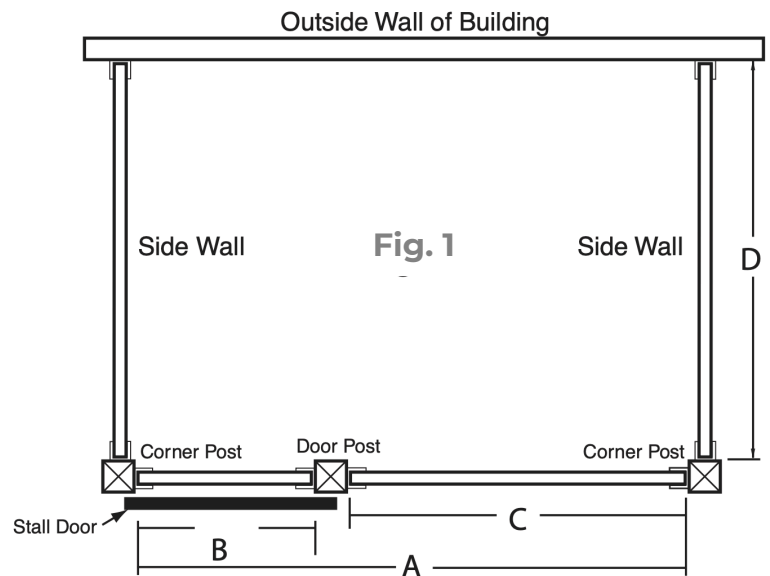
- Tongue & groove ash
- Square edge ash

QUICK TIP

Standard Rockwood stall sizes are 10' x 10', 12' x 12', and 10' x 12'. Ensure to plan for the future, not just the present.

1. Corner posts can be set 10' or 12' (or any other spacing as desired) on center to fit building design or special needs. The grill length (see C in Fig. 1) of a standard 10' stall front is 65" and 91" for a 12' stall front. (see Fig. 1). However, grill sections can be combined to create any size of stall front you desire.
2. The inside distance between the door posts (See B in Fig. 1) must be 48". Posts used for the installation may be 6x6, 4x4, or 4x6. If top of posts are not going to be anchored then a sufficient amount of post should be placed deep enough in the footing to provide adequate holding power (we recommend a 3' depth).
3. Install the corner posts first followed by the door posts. Ensure all posts are plumb, true, and level.

NOTE: Wall sections that span over 12' long will require a 4" x 4" center support post.



QUICK TIP

The finished size for 2" x 6" dressed lumber is 1 ½" x 5 ½". If choosing tongue & groove, take into account the loss of height due to the tongues & grooves. We recommend using pressure treated wood for the bottom two boards.

Wood Specs

SECTION	10' STALL	12' STALL	14' STALL
Front walls (for header channel)	10x 2" x 6" x 10' 1x 2" x 10" x 10'	10x 2" x 6" x 12' 1x 2" x 10" x 12'	10x 2" x 6" x 14' 1x 2" x 10" x 14'
Grill partitions	10x 2" x 6" x 10' 1x 2" x 10" x 10'	10x 2" x 6" x 12' 1x 2" x 10" x 12'	9x 2" x 6" x 14' 1x 2" x 10" x 12'
Solid partitions	18 - 2" x 6" x 10'	18 - 2" x 6" x 12'	18 - 2" x 6" x 14'
Posts (see Fig. 1 on page 2): 4" x 4", 4" x 6", or 6" x 6"	3 needed per stall except when stalls are added next to each other		

Post Installation



When you auger posts, all posts should be installed with the top at least 8' above the ground. If the posts are not properly secured at the top, they must be buried to a depth of at least 3' to provide adequate stability.

1. Refer to Fig. 1 on page 2 to determine post locations for the size of stall that has been selected.
2. Install the corner posts first, being careful to stay within the distances A and D as given in the chart.
3. Install the door post to distance B to a tolerance of +/- 1/4".

NOTE: Make sure all posts are checked for level on all sides.

4. Dimension C should be treated as the variable dimension if a problem with post location should arise. In this event, it may be necessary to cut some of the grill components.

STALL ARRANGEMENTS USING 3 1/2" X 3 1/2" POSTS

10' STALL FRONT	12' STALL FRONT
A = 116.5"	A = 142.5"
B = 48"	B = 48"
C = 65"	C = 91"
D = 120"	D = 144"



To avoid mistakes, perform each step in the sequence shown.



Checking for square: Measure top left to bottom right and repeat for the other corners, measurements should be the same. If they aren't, tap the corner of the longest measurement until you have two equal measurements.

Front Wall Assembly

1. Use the figure on page 5 as a guide.
 - a. Install the 46" u-channels on the corner and door posts with the screws provided (channels under grillwork).
 - b. U-channels should be set back ½" from the front face of the posts.
 - c. The u-channels should be set + or - ½" above the floor.
2. Cut all necessary lumber to a length ¼" to ⅜" less than the distance measured between the inside faces of the u-channel.
3. Installing the lumber in the u-channels.
 - a. Slide the first board down to the bottom of the u-channel ensuring that it is level (pressure treated lumber should be used for the bottom of the stall wall).
 - b. Firmly secure the bottom board with the screws provided before installing the remaining boards.
4. Install all remaining boards ensuring that they
 - come to a height of 1 ⅛" above the top of the u-channels. It may be required to rip cut a board to achieve the correct height.
5. Fit the grill work section over the 2x6 for the wall and mount on top of the ends of the 46.5" u-channels.
6. Install the 7" u-channels flush with the top of the grill work section.
7. Slide the 2x10 board into the 7" u-channel and push down on top until it is secured into the top channel of the grill work.
8. Finish off installing all screws in holes.
9. **THE FOLLOWING IS FOR 12' FRONTS (OR LARGER) ONLY.** Install the one wall brace placing it on the inside of the wall.
 - 12' fronts come with one 46" wall brace.
 - Grilled partition walls come with two 46" wall braces, one for each side.
 - Solid partition walls come with two 94" wall braces, one for each side.

QUICK TIP

There are two 7" header u-channels provided with each stall door to install an optional 2"x10" lumber header in the door opening for added strength. Installation instructions for this optional header are on page 9.

DETAIL E



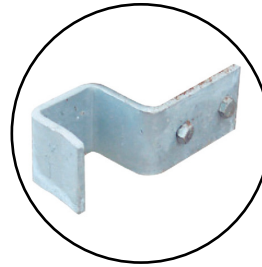
WALL BUMPER



END CAP



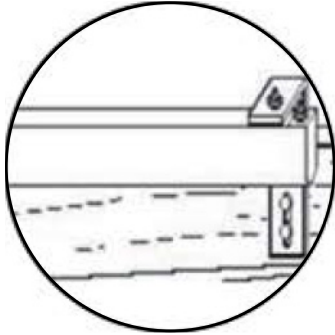
POST BUMPER



STAY ROLLER



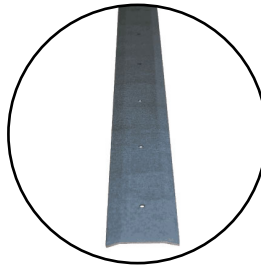
DETAIL F



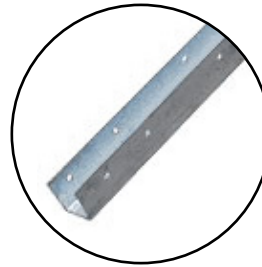
OFFSET BRACKET



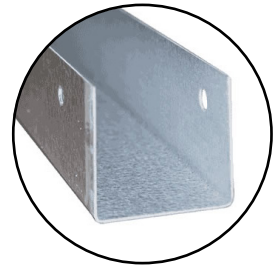
WALL BRACE



U-CHANNEL

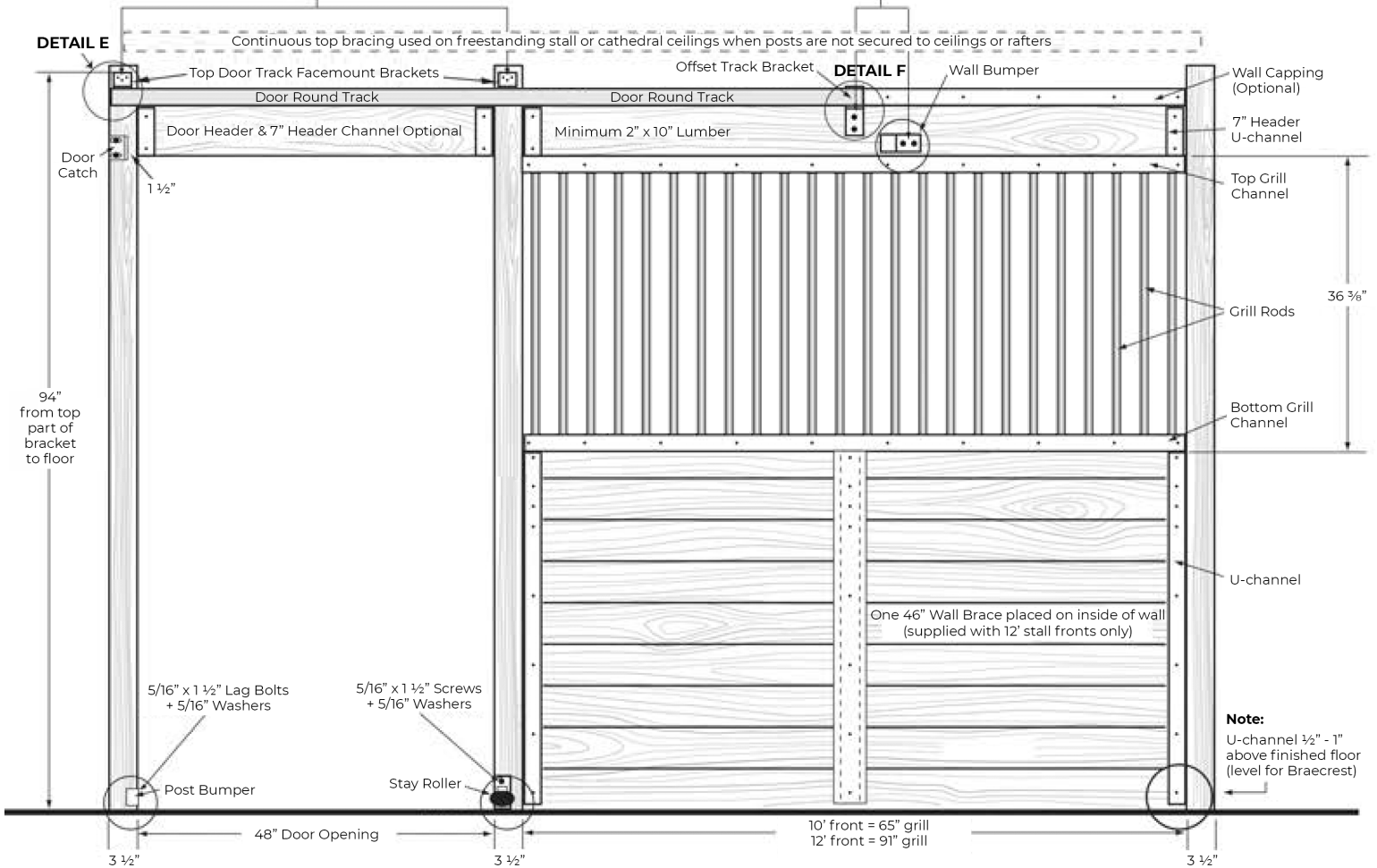


WALL CAPPING



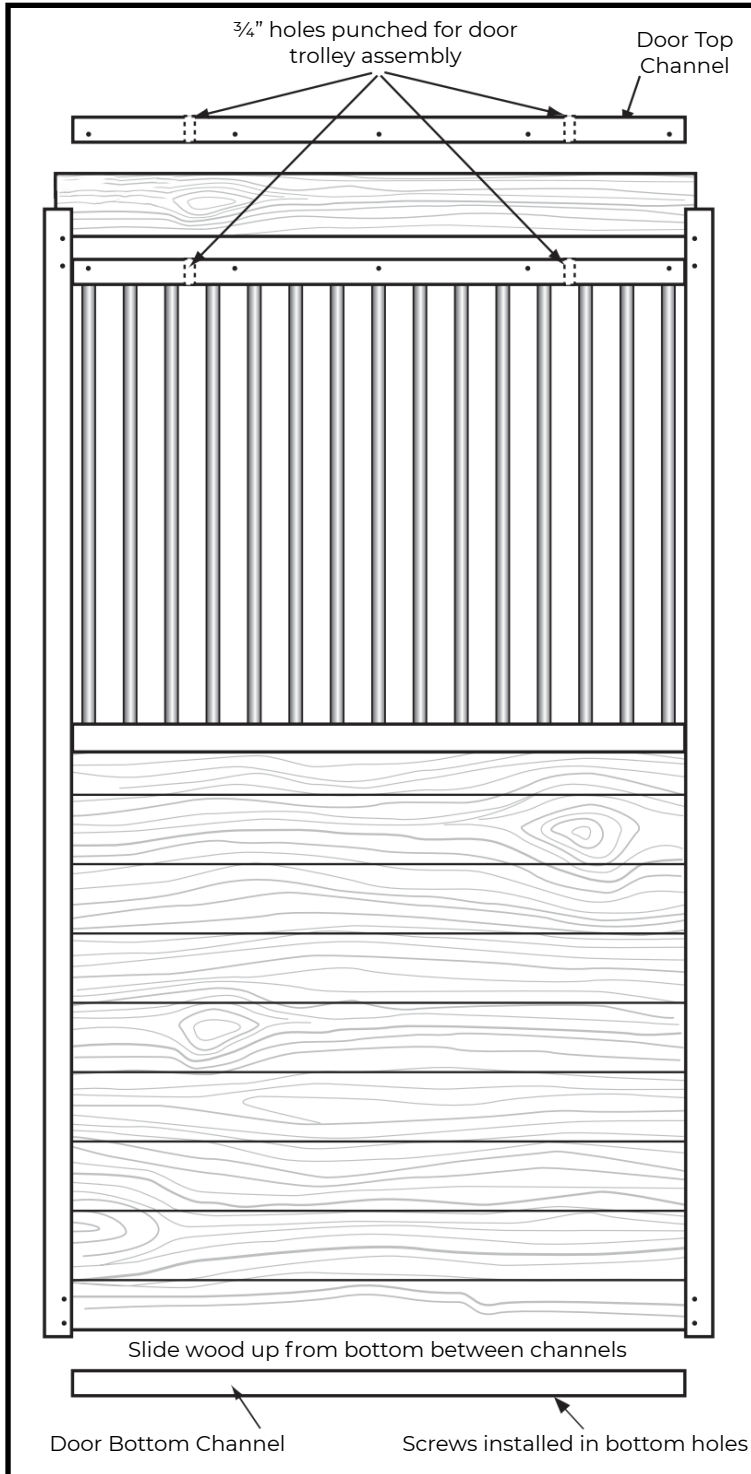
#12 x 1" Black Eclipse Screws (for painted stalls)
or #12 x 1 1/4" Truss Quad Screws (for galvanized stalls)

5/16" x 1 1/2" Lag Bolts + 5/16" Washers



Stall Door Assembly

1. The door comes almost completely assembled except for the wood. First cut all door lumber to a length of 50 ½" the number of pieces will vary depending on material used.
2. Slide the first piece of lumber inside the door side U-channels up from the bottom of the door until it seats inside the bottom of the grill section of the door.



NOTE: Make sure this piece of lumber has a flat square top. DO NOT INSERT ANY SCREWS AT THIS TIME!

3. Insert the balance of the lumber and fill to the bottom of the door.

NOTE: Bottom piece may need to be trimmed to fit.

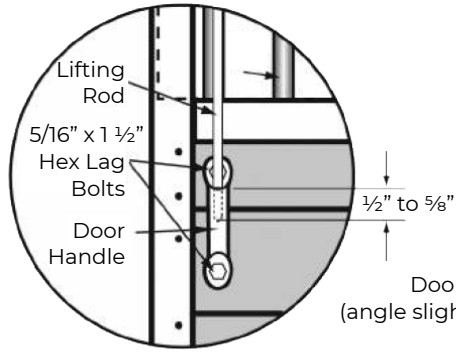
4. Insert the door bottom channel over the last piece of lumber and flush with the bottom of the door side U-channels. Insert and tighten screws bottom screws.

NOTE: To ensure a tight fit firmly tap the bottom channel with a rubber or soft face mallet as you fasten the screws. Use a scrap piece of wood between the mallet and the bottom channel so as not to damage it.

5. Insert the proper size lumber (5 ½" W X 50 ½"L) with both edges flat and square, in the top of the doors vertical channels and tap firmly into place against the top of the grill section. When tapped into place the lumber should be just below the top of the door side U-channels approximately ⅛".
6. Slide the top door channel over the top piece of lumber and flush with the top of the door side U-channels. Insert and tighten screws.

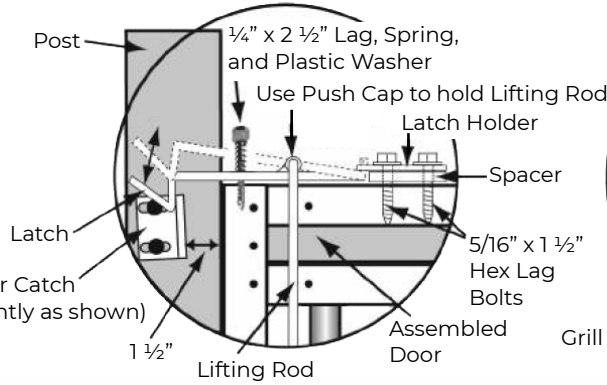
DETAIL A

Door Handle Assembly



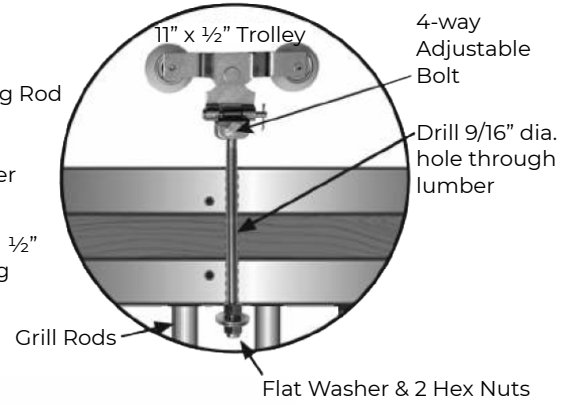
DETAIL B

Door Latch Assembly



DETAIL C

Door Trolley Assembly

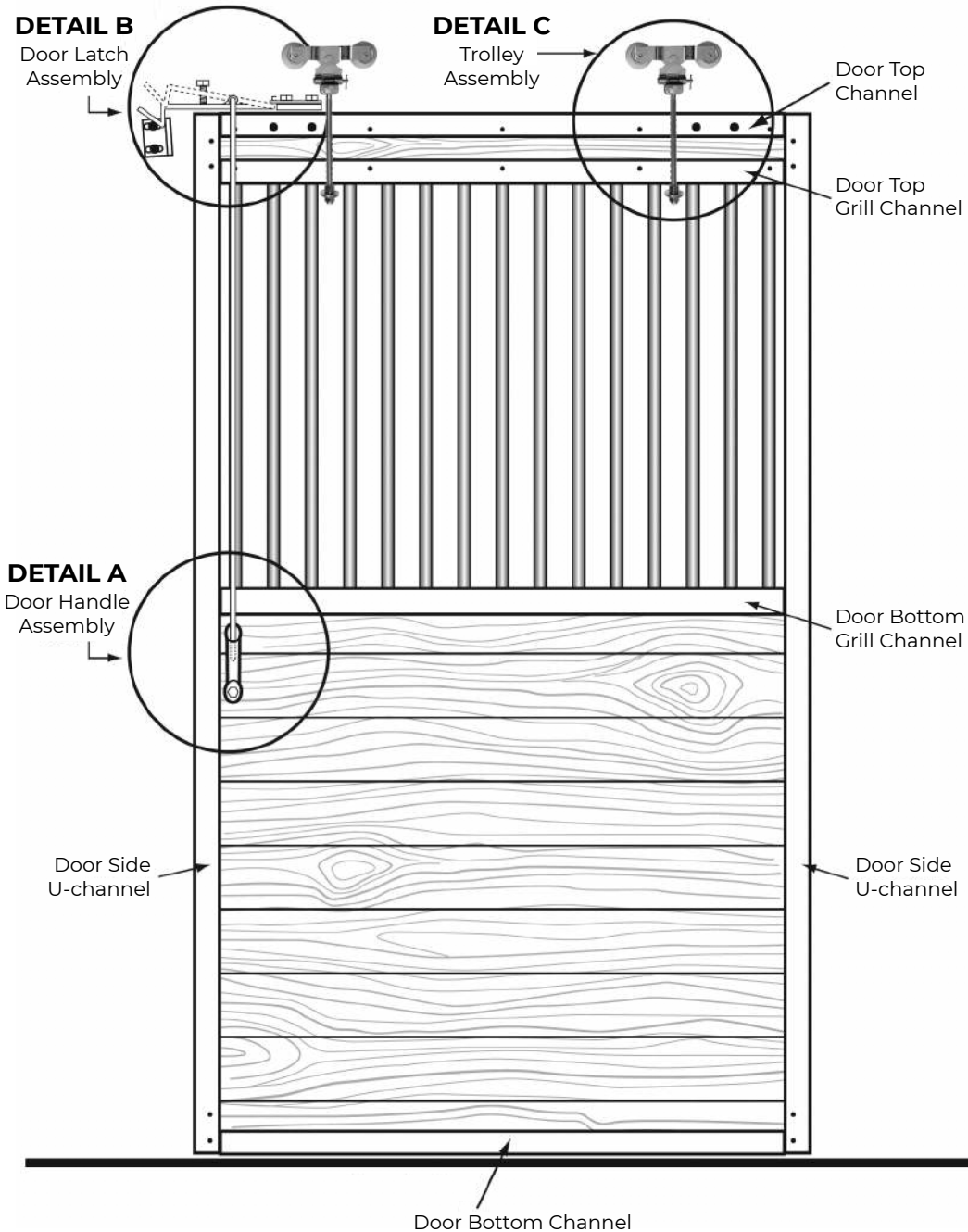


DETAIL B

Door Latch Assembly

DETAIL C

Trolley Assembly



Door Trolley Assembly

(Detail C on Page 7)

1. Assemble Round Track Trolley as per enclosed instructions.
2. Drill through pre-punched hole in door top channel using a 9/16" drill bit.

Door Installation

1. If using 3.5" posts, you will find that the facemount brackets will stick out in between the posts. You may choose to hammer the overhanging sections of the brackets back or simply cut off and file down any excess.

DOOR TRACK BRACKET INSTALLATION: 3 track mounting brackets are included in the hardware kit; 2 brackets are Facemount Brackets with 5 bolt holes and the last one is an Offset Bracket and has 1 top bolt and 2 wallmount bolt holes.

2. Our round track has five notches in it across the top. To determine the proper side to hang the track over the door opening, starting at the first notch at the end, measure 52" to the third notch. This will allow you to hang the facemount side brackets onto the posts, based on a 48" opening for your door. Simply slide the notch of the facemount bracket into the hole on the track and tap the bracket towards the outside with a hammer.
3. Measure 93" from the ground up each stall door post and mark a horizontal line across each post. With help, lift your track so that the top of each facemount bracket lines up with corresponding line. Attach the brackets with 1 lag bolt into post. Reinforce with 2 screws into each hole on either side of the lag (2 people required for this step).
4. With help lift the door up and maneuver the trolleys into the door track. Leave door at door opening supported by facemount brackets.

Door Header Assembly (Optional)

1. There are two 7" long u-channels provided with each stall door to install an optional 2" x 10" header board in the door opening behind the track and directly in line with the lumber above the grill section.
2. Fasten the 7" u-channels 1" back from the front of the posts with the bottom edge of the u-channel at a height of 83" and level from the finished floor using the #12 x 1 1/4" screws provided.

NOTE: These u-channels are mounted at the same height as the ones used in the grilled front or grilled partition.

3. Insert bolt and pre-assembled roller assembly through hole, use flat washer and 2 hex nuts to secure in place that are included in your Round Track Trolley Package.

5. Now complete the door track assembly by inserting the remaining end cap and offset bracket on the end of the track.

IMPORTANT: Level the track before securing the offset bracket.

6. With the door open and flush with the center door post install the wall bumper to the header at the top back of the door.
7. Secure stay roller to bottom center of the center door post.
8. Attach the post bumper to the bottom of the corner post approximately 1/2" off the floor. Set post bumper height so it fits between the screws on the bottom of the door or the bumper will interfere when sliding.
9. With the door in the closed position and approximately 3/8" away from touching the post bumper. Install the door catch to the corner post approximately 1/8" to 1/4" below the top to the door.



3. Slide a piece of 2" x 10" lumber into the u-channels and leave 2" of lumber protruding below the u-channels. Insert and tighten all screws on both side of the u-channels.

NOTE: 2" x 10" lumber length is 1/2" less than the stall door opening.

4. If optional wall capping is used, cut to desired length and slide firmly over the bottom and top edge of the 2" x 10" lumber in the door opening and secure with screws.

Latch Assembly

Top Door Latch & Handle Assembly

See page 7 for diagram

1. Position the latch, spacer and latch holder in place on door, use the two 5/16" x 2 1/2" hex lag bolts to fasten them to the door.
2. Screw the 1/4" x 2 1/2" guide lag bolt with the spring and washer in position leaving the latch approximately 1/2" to 5/8" of vertical movement.

3. Attach the lifting rod to the latch with the locking push cap.
4. Place the door in position and allow the lifting rod to hang level to determine the door handle location.
5. Lifting rod should extend approximately 1/2" to 5/8" below the top of the inside of the door handle.
6. Fasten handle to door using the two 5/16" x 1 1/2" hex lag bolts.

Pin Latch Assembly

1. With the door in the closed position, draw a small line on the post.
2. Open the door so that it is fully open out of the way.
3. With a 1" drill bit, drill into the post at the same angle as the pin latch receiver.
4. Fasten the receiver with the two screws provided.
5. Fasten the pin latch open holder on the door, making sure that it is out of the way of the operation of the pin latch, but close enough for the chain to work properly.



Horseshoe Latch

1. Install the latch either just below the grill work section with six screws, or if using the decorative flanges install in the middle of the flange.
2. With the door in the closed position, install the catch.
3. Open the horseshoe latch, position the catch 1/8" inside of the hook on the horseshoe latch.
4. Holding the catch in place open and close the horseshoe latch to make sure that it freely moves back and forth. Use either lag bolts for wood posts or self-drilling screws for steel posts to fasten the catch.



Partition Assembly

NOTE:

- U-channel required for solid partition is 94 ½" long
- U-channel required for gridded partition is 46" long
- U-channels required for privacy partition are 94 ½" & 46" long

1. First, select the u-channel(s) for the type of partition to be installed. Install one u-channel in the center on either the corner or outside wall at +/- 1" above the stall floor (level for Braecrest) and one in the center of the post (for privacy partition, the 94 ½" for solid area and the 46" for the gridded area).
2. Cut all the necessary lumber to a length ¼" to ⅜" less than the distance measured between the inside faces of the u-channels.
3. Installing the lumber in the u-channels:
 - a. Slide the first board down the u-channels all the way to the floor and ensure that it is level.
 - b. Firmly secure with the screws provided.

NOTE: For solid partition walls:

- Install all remaining boards and secure with the screws provided
- Install the two 94" wall braces (one on each side) with the screws provided.

NOTE: Remaining steps are for gridded or privacy partitions.

4. Install all remaining boards ensuring that they come to a height of 1 ⅛" above the top of the 46" u-channels. It may be required to rip cut a board to achieve the correct height.
5. Install grill sections.

For gridded partitions: Install the grill section(s) flush with the top of the 46" u-channels.

NOTE:

For a 10' stall, one 6' and one 4' grill section are used
For a 12' stall, two 6' grill sections are used

For privacy partitions: Install the grill section(s) flush with the top of the 46" u-channels.

NOTE:

For a 10' stall, one 65" grill section is used
For a 12' stall, one 91" grill section is used

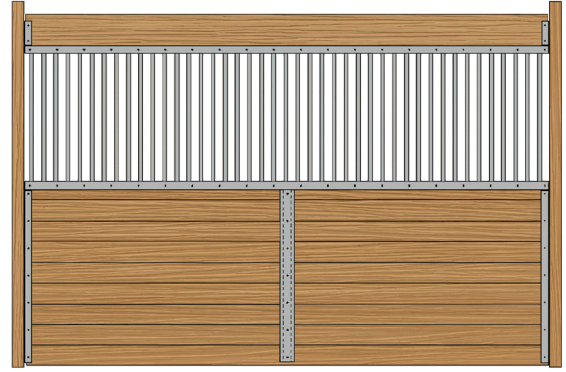
Once grill portion is installed with vertical channel facing the solid portion, continue to install wood.

6. At a height of 36 ⅜" install two 7" header u-channels above the top of the 46" u-channels, centered on the posts.
7. Place the 2" x 10" header board in the 7" u-channels and pull the board down so that it sits tight into the top of the grill work. Finish putting in all remaining screws.
8. Wall brace installation for 12' or larger walls.

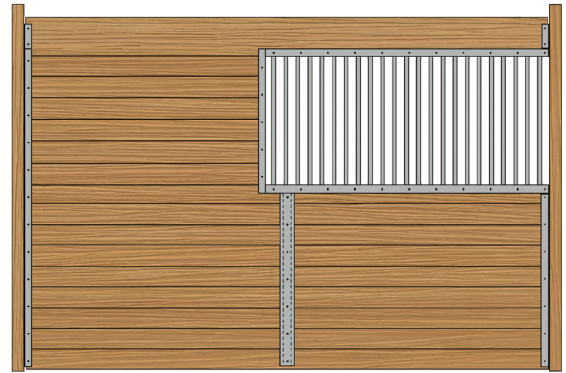
NOTE:

- 12' front walls come with one 46" wall brace
- 12' gridded partitions come with two 46" wall braces (one for each side)
- 12' solid partitions come with two 94" wall braces (one for each side)

Grilled Partition



Privacy Partition



Solid Partition

