



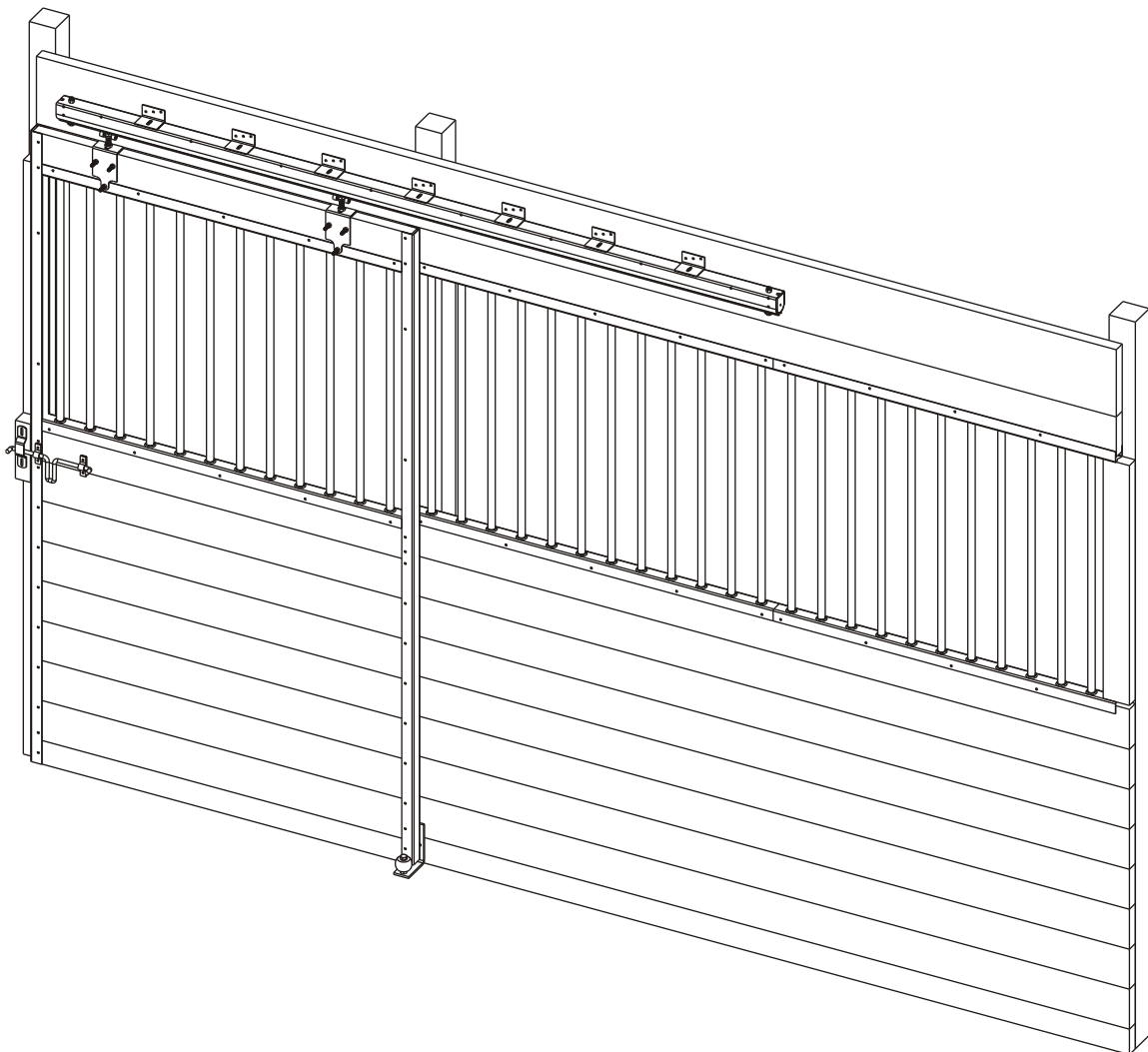
---

# Derby Stalls

(Pro-Line)

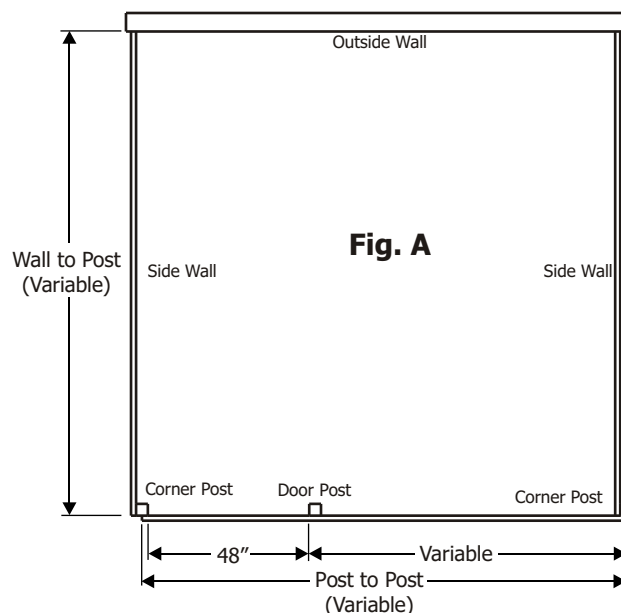
## Installation Instructions

---



# Before You Start

- Typical stall sizes are 10' x 10', 12' x 12' or 10' x 12', but virtually any size can be built using the stall system.
- Make sure to plan for additions to your stable ahead of time.
- All measurements are based on finished wood sizes. (Example: 2" x 6" = 1 1/2" x 5 1/2")
- Tongue & groove boards are recommended for filler wood. Account for loss of height due to tongue & groove.
- Pressure treated wood is recommended for posts and bottom two boards of the stall fronts and partitions.
- Corner posts can be set 10' or 12' (or any other spacing as desired) on center to fit building design or special needs. Grill sections can be combined or cut down to create any size of stall front you desire.
- The inside distance between the door posts (See Fig. A) must be 48". Posts used for the installation may be 4x4, 4x6 or 6x6. 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 (3' depth recommended).
- Install the corner posts first followed by the door posts. Make sure all posts are plumb, true and level.
- Wall sections that span over 12' long will require a 4x4 center support post.
- Drilling pilot holes is recommended to prevent splitting of wood.

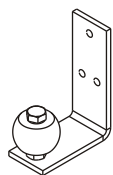


10' Stall Front Wood Cut Chart		
Description	Size	QTY
Lower Wall Front	2 x 6 @ 72"	8
Lower Wall Front (Pressure Treated)	2 x 4 @ 72"	1
Lower Header	2 x 6 @ 120"	1
Upper Header	2 x 10 @ 120"	1
Post Filler	2 x 4 @ 81 1/2"	1
Grill Post Filler	2 x 4 @ 33 3/4"	1
Door Stop	2 x 4 @ 6"	1
Latch Filler	2 x 4 @ 8"	1
Door Grill Inserts	1 1/2" x 1 5/8" @ 33"	1
Door Boards	2 x 6 @ 50 1/2"	10

12' Stall Front Wood Cut Chart		
Description	Size	QTY
Lower Wall Front	2 x 6 @ 96"	8
Lower Wall Front (Pressure Treated)	2 x 4 @ 96"	1
Lower Header	2 x 6 @ 144"	1
Upper Header	2 x 10 @ 144"	1
Post Filler	2 x 4 @ 81 1/2"	1
Grill Post Filler	2 x 4 @ 33 3/4"	1
Door Stop	2 x 4 @ 6"	1
Latch Filler	2 x 4 @ 8"	1
Door Grill Inserts	1 1/2" x 1 5/8" @ 33"	1
Door Boards	2 x 6 @ 50 1/2"	10

# Part Identification

(Quantities per stall front)



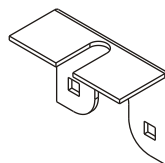
Stay Roller (1)



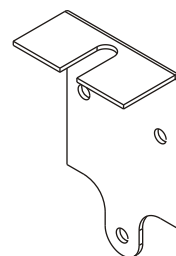
Round Track  
Bracket (7)  
(Not Painted)



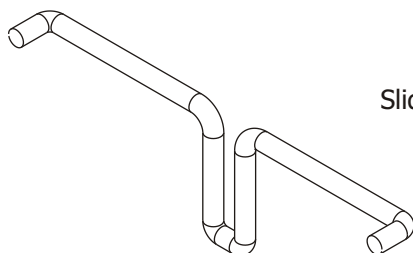
Round Track  
End Caps (2)



Small Flange  
90° Trolley Bracket (2)



Large Flange  
90° Trolley Bracket (2)



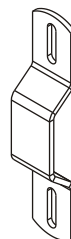
Slide Bolt (1)



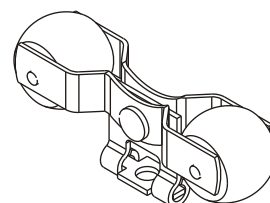
Slide Bolt Mounting  
Bracket (2)



Slide Bolt Mounting  
Bracket Spacer (2)

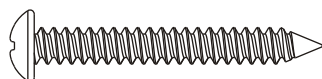


Slide Bolt Strike (1)

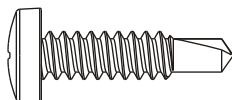


Round Track  
Trolley Wheels (2)

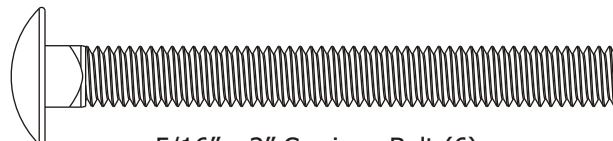
(Screws shown actual size)



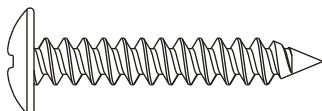
1 1/2" (6)  
Slide Latch



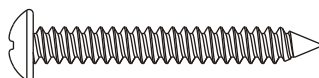
#14 x 1"  
Trolley (2)



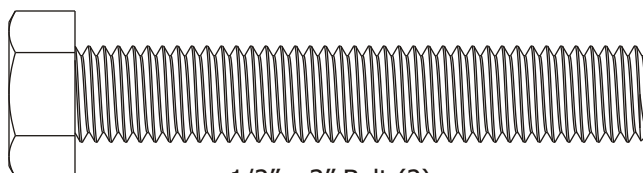
5/16" x 3" Carriage Bolt (6)  
Trolley



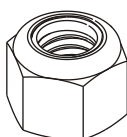
1/4" x 1 1/2"  
Stay Roller (3)



#10 x 1 1/2"  
Round Track Bracket (21)



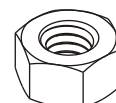
1/2" x 3" Bolt (2)  
Trolley



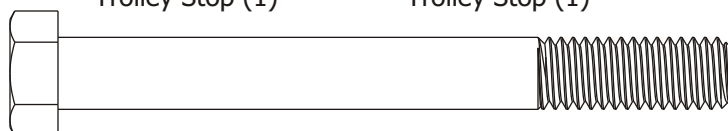
3/8" Lock Nut  
Trolley Stop (1)



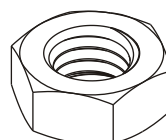
3/8" Washer  
Trolley Stop (1)



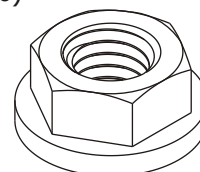
5/16" Nut (6)  
Trolley



3/8" x 3 1/2"  
Trolley Stop (1)



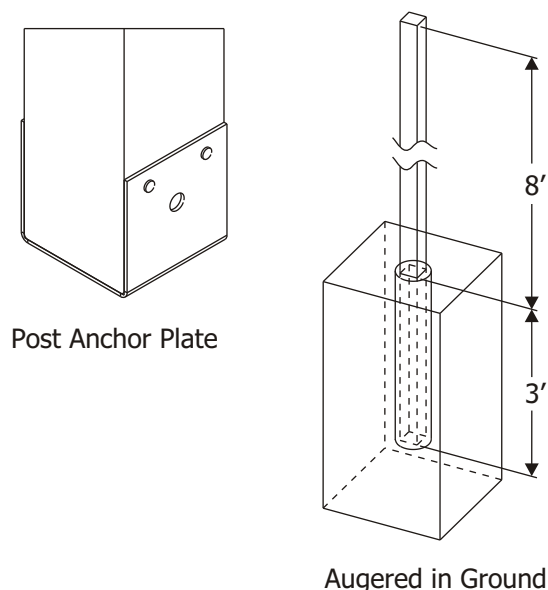
1/2" Nut (2)  
Trolley



1/2" Flange Nut (2)  
Trolley

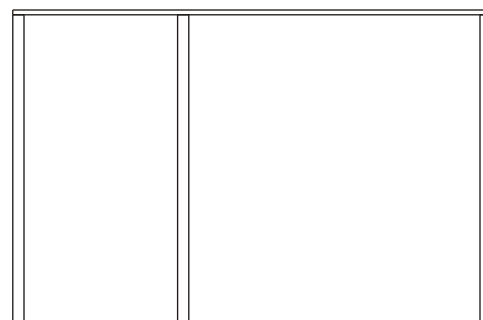
# Post Installation

Posts can be installed in several ways. The most common is to auger into the ground or using post anchoring plates to a concrete base.



When you auger posts, all posts should be installed with the top at least 8' above the ground.

Continuous bracing



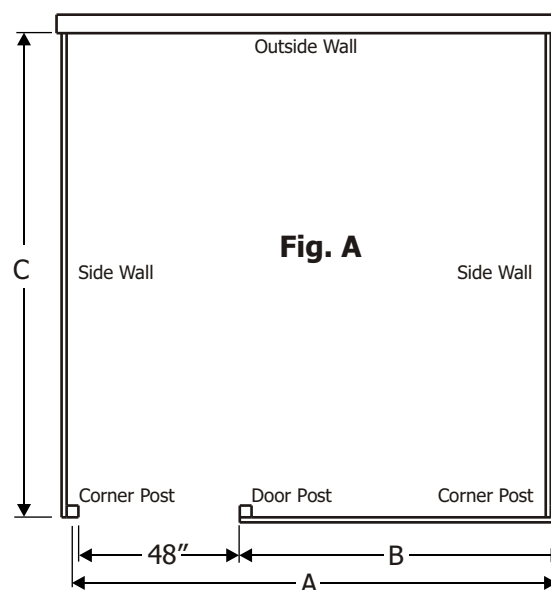
Continuous top bracing must be used on free standing or cathedral ceilings when posts are not secured to ceilings or rafters.

1. Refer to Fig. A to determine post locations for your stall size.
2. Install corner posts first. Be careful to stay within the dimensions A and C per the chart.
3. Install door post 48" from corner post with a tolerance of +/- 1/4".

NOTE: Check all posts for level, square and plumb.

4. Dimension B 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 Dimensions using 4x4 (3-1/2" x 3-1/2") Posts		
Dimension	10' Stall Front	12' Stall Front
A	120"	144"
B	72"	96"
C	120"	144"

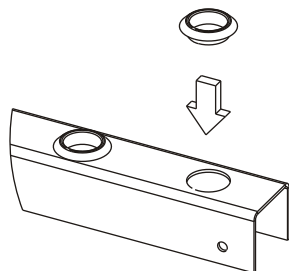


**CHECK FOR SQUARE:** Measure from one corner diagonally to the opposite corner (top left to bottom right) and repeat for the other corner. Measurements should be the same. If they are not, tap the corner of the longest measurement until you have two equal measurements. This will ensure your work is square.

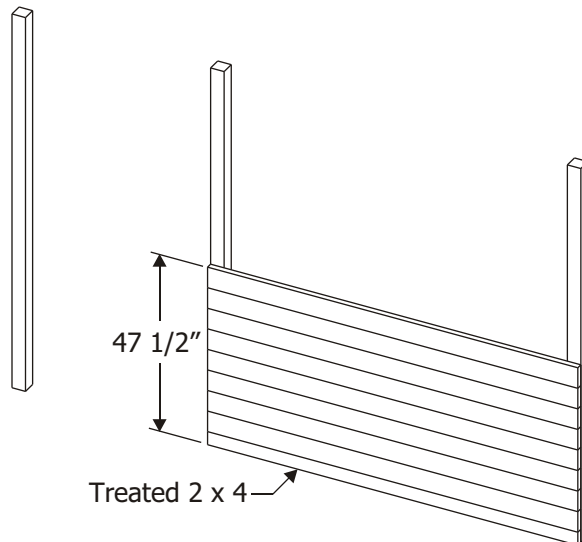
# Front Wall Assembly

Install a 2 x 4 pressure treated board on the bottom of the wall and flush with both the inside door post and outside wall post using 3 1/2" spiral nails or wood screws (not supplied).

Install remaining 2 x 6 boards ensuring they do not exceed the required height of 47 1/2" from floor to top of board. Do not completely secure final board until grill is installed.



Firmly press in rubber grommets into holes for the top and bottom grill channels.



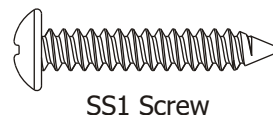
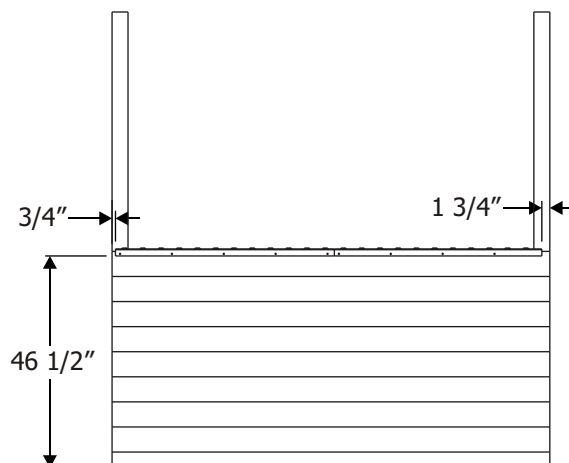
Draw a horizontal line 46 1/2" from the floor on the top board.

Place the first grill channel 3/4" from the edge of the door opening side of the door post, aligning the bottom edge of the channel with the 46 1/2" line.

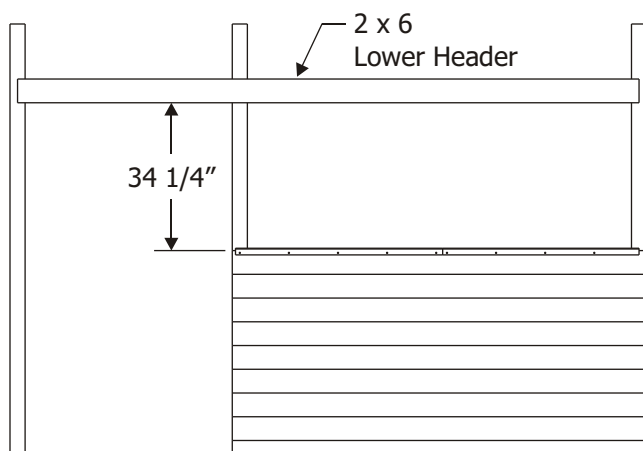
Fasten with supplied SS1 screws.

Butt next grill channel to the first. Trim any access channel so it ends halfway on the outside corner post (1 3/4" for a 4 x 4 post). Fasten with SS1 screws.

Finish securing top 2 x 6 board.



SS1 Screw



Level and tack in place the 2 x 6 lower header board at a height of 34 1/4" above the top board of the lower wall section.

## Front Wall Assembly (cont.)

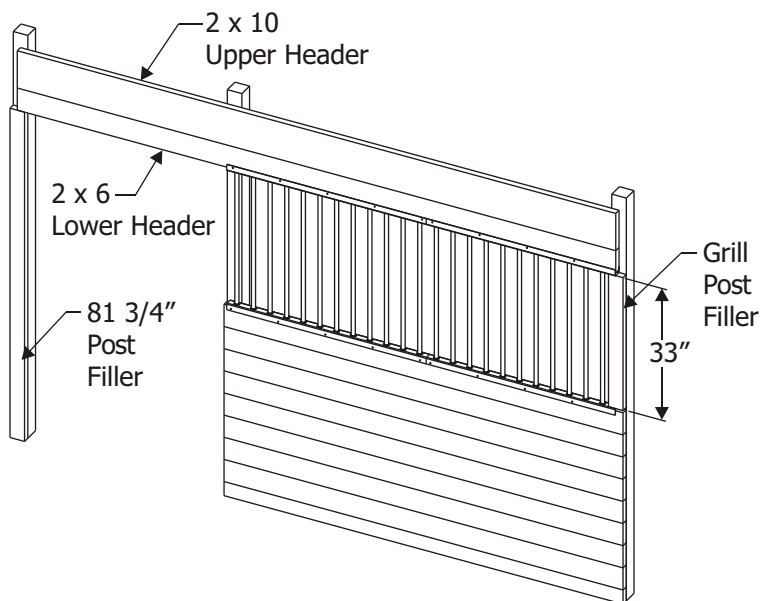
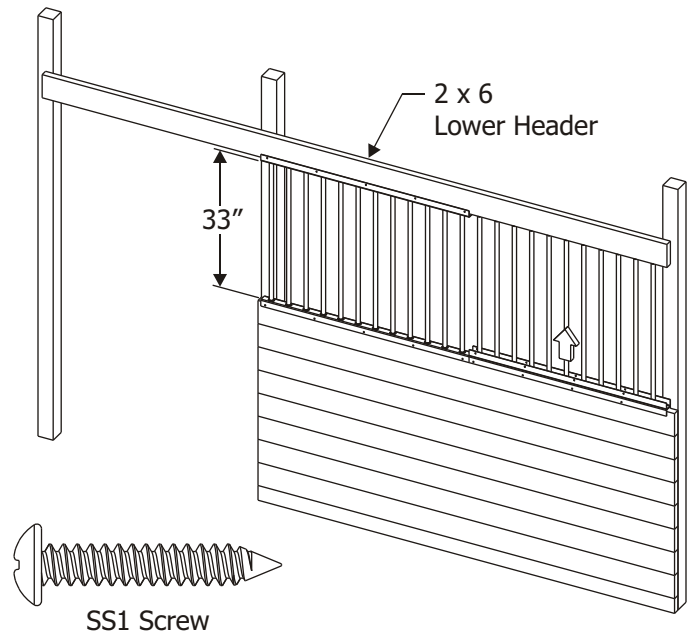
Place top grill channel on top of the bottom grill channel with the opening facing up.

Insert the grill bars through the top grill channel into the bottom grill channel.

When all the bars are in place for that section, slide the top channel up onto the header board. You may be required to pull out the bottom of the header board to be able to slide the top grill channel up into place. Assistance may be required.

The opening distance between the top and bottom channels should be 33".

Fasten top grill channel to header board with supplied SS1 screws and secure lower header board.

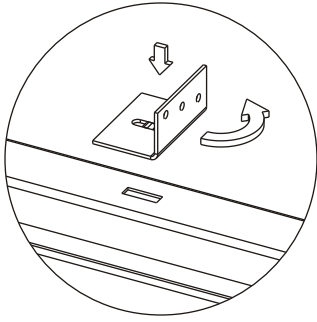


Install 2 x 10 upper header directly above the 2 x 6 lower header.

Measure (33"), cut and install the grill post filler to fit in between the top and bottom grill channels.

Measure (81 3/4"), cut and install the post filler on the post the door closes towards.

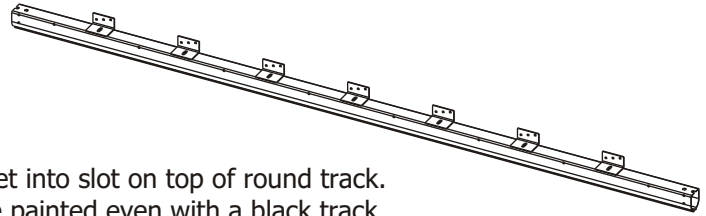
## Front Wall Assembly (cont.)



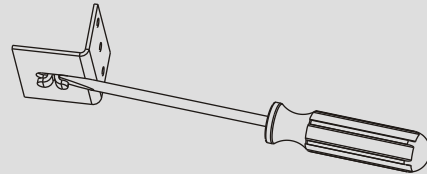
Insert tabs on track bracket into slot on top of round track.

Note: Brackets will not be painted even with a black track.

Rotate track bracket 90° to engage tabs into round track. A rubber mallet or block of wood and hammer may be necessary to turn track bracket.

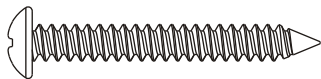


If bracket will not rotate or takes excessive force to rotate, pry tab slightly. Do not over bend. You do not want a loose fit when installed in track.



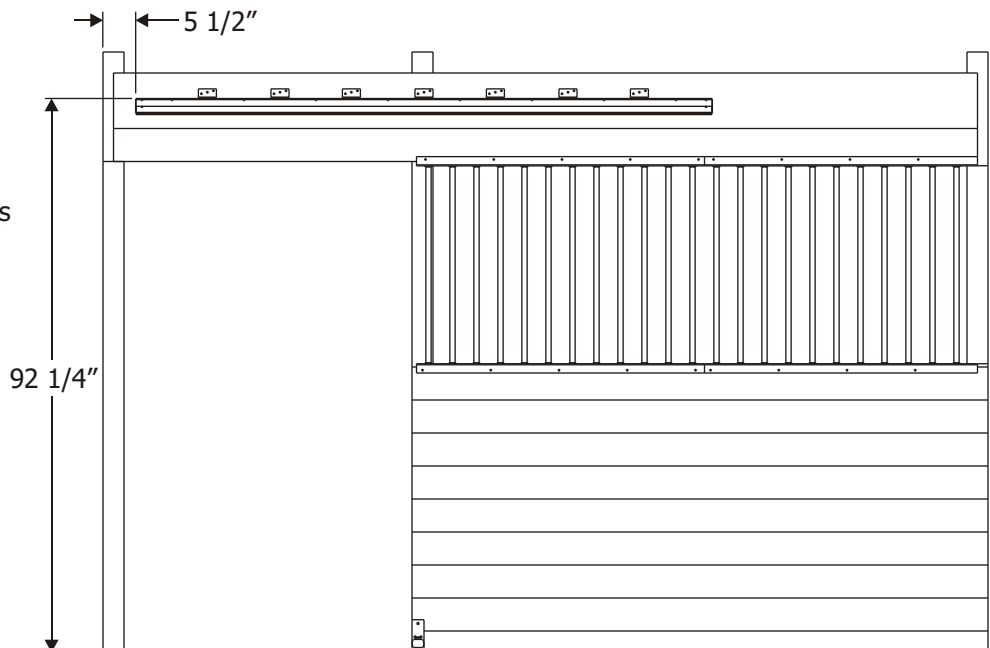
Position top of track 92 1/4" from floor and 5 1/2" from outside edge of post.

Fasten round track to header board with #10 x 1 1/2" screws supplied, through holes in brackets.



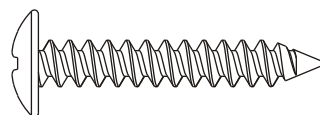
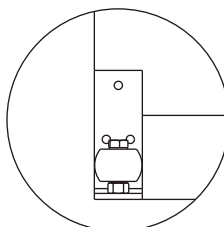
#10 x 1 1/2"

Round Track Bracket (21)



Set door stay down against the floor and aligned with edge of door opening.

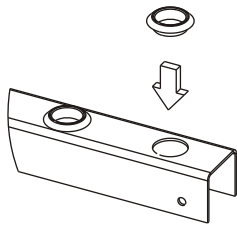
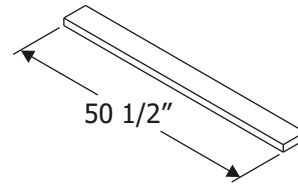
Fasten with 1/4" x 1 1/2" screws.



1/4" x 1 1/2"  
Stay Roller (3)

# Door Assembly

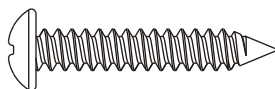
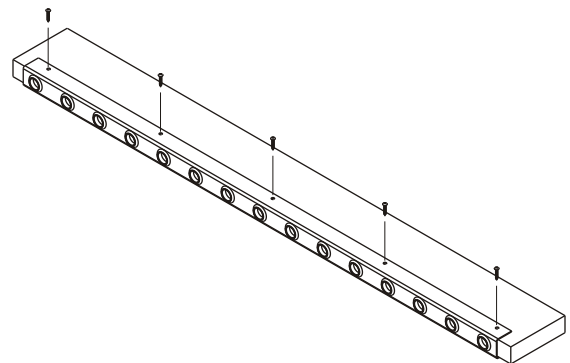
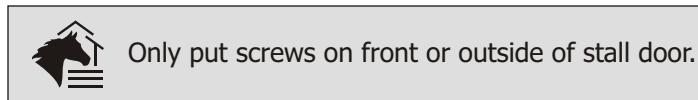
Cut 10 pieces of 2 x 6 lumber to 50 1/2". The number of pieces may vary depending on the material used.



Firmly press in rubber grommets into holes on the top and bottom grill channels.

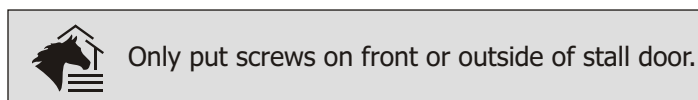
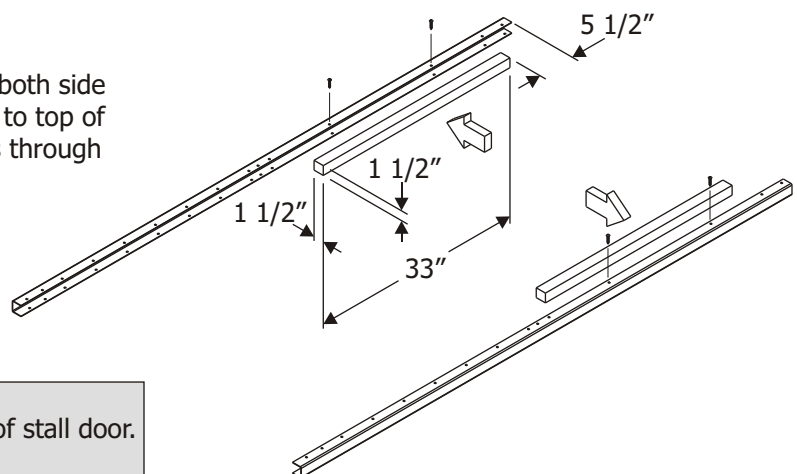
Place the top channel over a 2 x 6 cut at 50 1/2". Center the channel evenly on the 2 x 6.

Using SS1 screws provided, attach lumber and channel together.



SS1 Screw

Install a 1 1/2" x 1 1/2" x 33" wood piece into both side channels at 5 1/2" from the top of the channel to top of the wood insert piece. Fasten with SS1 screws through holes in the side channel.



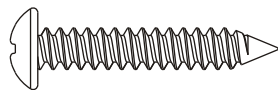


## Door Assembly (cont.)

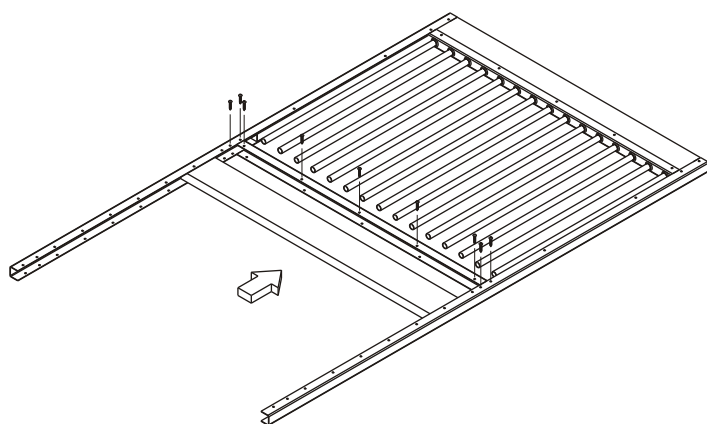
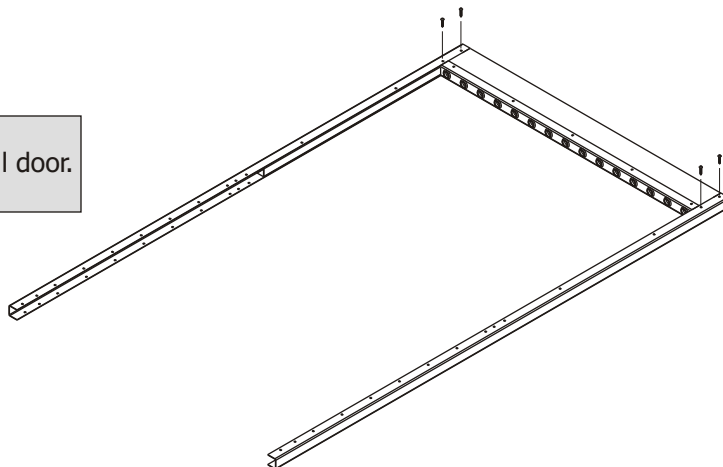
Align top of door side channels with top 2 x 6 door header board. Secure with SS1 screws.



Only put screws on front or outside of stall door.



SS1 Screw



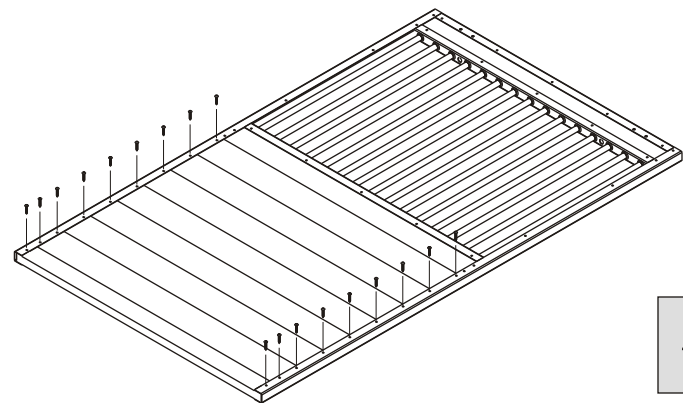
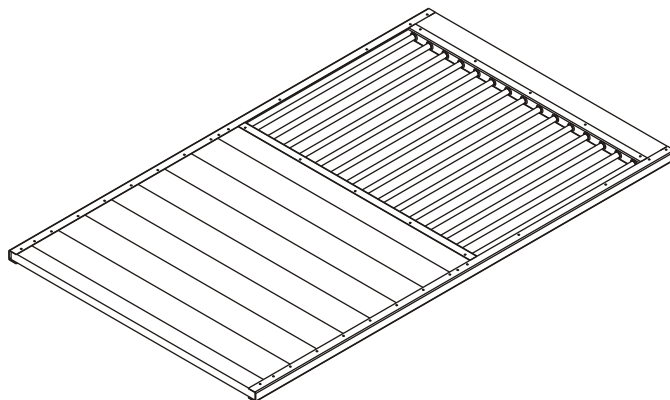
Center door bottom grill channel on a 2 x 6 cut at 50 1/2" and insert into door side channels.

Starting at one end, add grill bars into top and bottom grill channels.

Push 2 x 6 until it is tight up against wood insert/bottom grill channel/grill bars.

Secure bottom grill channel and side channels to 2 x 6 with SS1 screws.

Insert remaining 2 x 6 x 50 1/2" lumber. The last board may need to be ripped so it does not extend past the end of the door side channels.



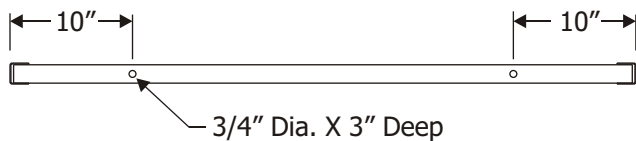
Make sure door is square and all channels and lumber are tight against each other.

Screw lumber to door side channels with SS1 screws.



Only put screws on front or outside of stall door.

# 90° Door Trolley Assembly

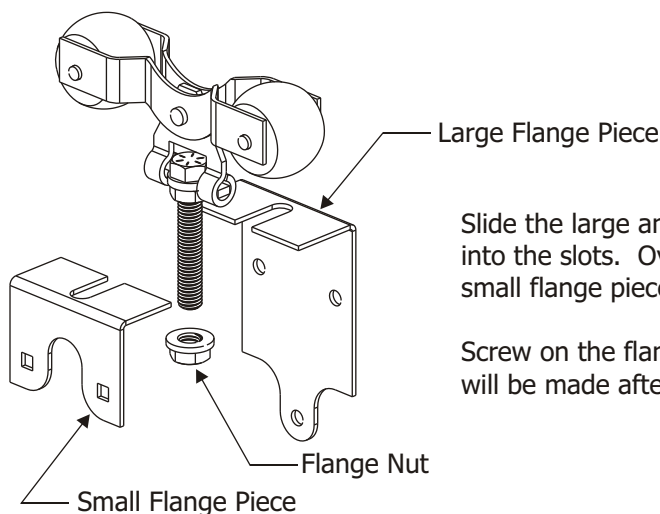
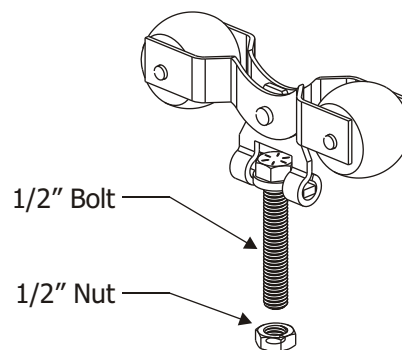


Measuring 10" from the outside edge of door, drill two 3/4" diameter holes approximately 3" deep.

Clean out holes before proceeding.

Insert 1/2" bolt through hole in trolley.

Thread 1/2" nut all the way up on bolt. DO NOT TIGHTEN.



Slide the large and small flange piece around the 1/2" bolt into the slots. Overlap the large flange piece on top of the small flange piece.

Screw on the flange nut. DO NOT TIGHTEN. Final adjustments will be made after door is hung.

Align trolley assembly over top of door with 1/2" bolt going into drilled hole.

Adjust flange pieces to fit around door.

NOTE: The large flange piece will be on the outside face of the door and small flange piece towards the stall.

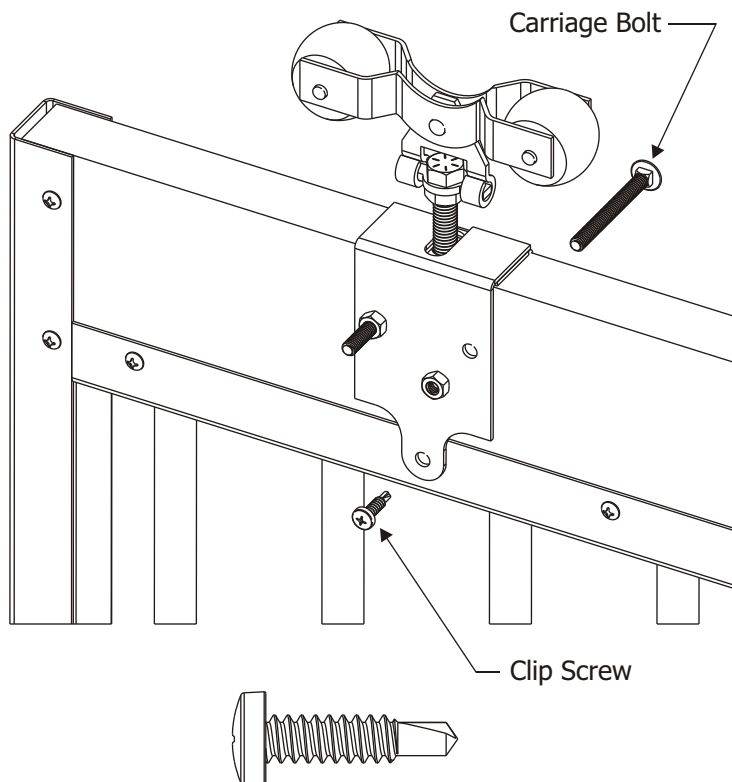
Drill 5/16" hole completely through door at top two hole locations in the large flange piece.

Insert carriage bolts from the stall side of door through drilled holes in door.

Attach nuts and tighten.

Fasten a Clip Screw through bottom hole into channel.

Hang door and make any adjustments with the 1/2" nut and flange nut.



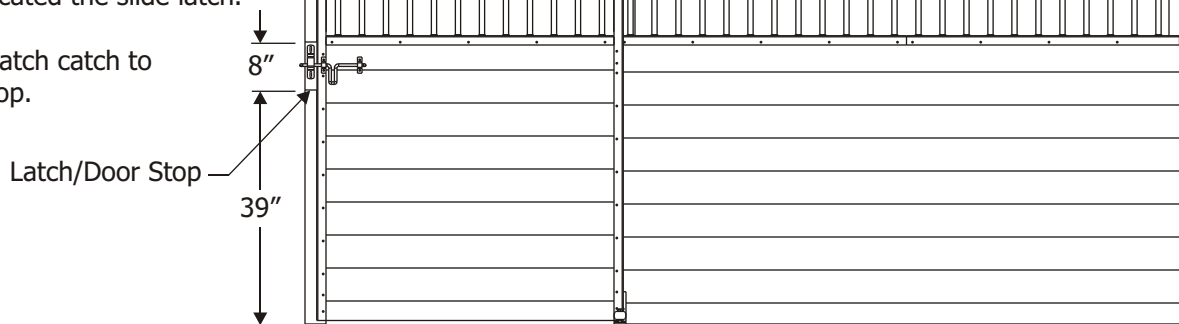
# Door Installation

Place trolleys onto the track.

Slide door to the closed position and attach slide latch to door.

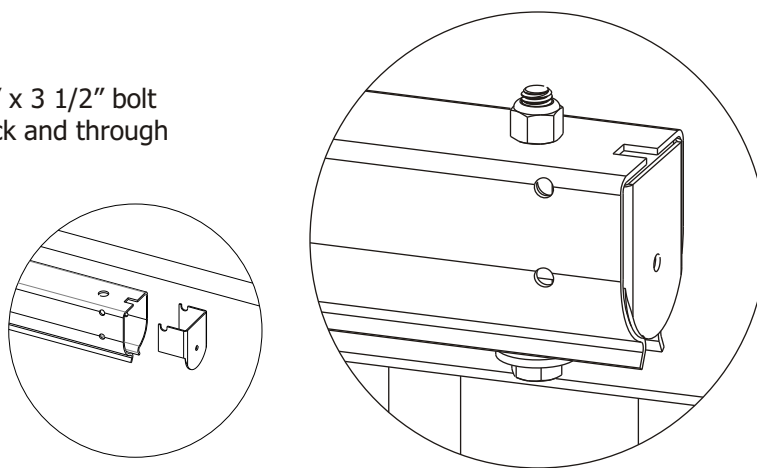
Fasten a 2" x 2" x 8" block of wood to the post for the latch/door stop. Height may vary depending on where you located the slide latch.

Fasten slide latch catch to latch/door stop.

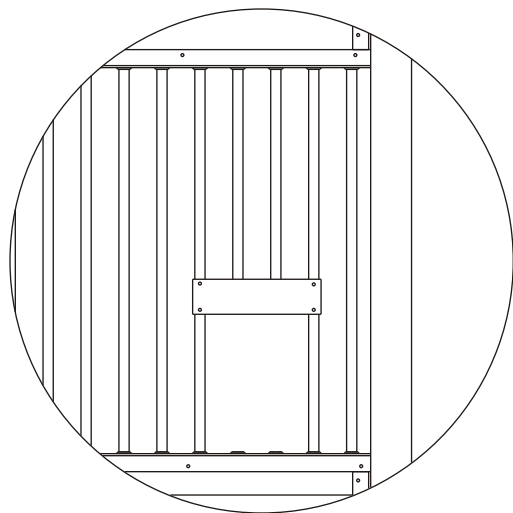


On end opposite of latch, slide washer onto 3/8" x 3 1/2" bolt then feed bolt up through bottom opening in track and through hole in top of track. Fasten with locknut.

Snap in track end caps on both ends of track.



# Feed Opening Option



## Feed Opening

Decide where feed opening is to be located.

Cut two grill bars to the desired length. Bars cut to 22" will give you approximately a 12" opening.

Slide feed opening over the two outer bars of the opening. Let the feed opening plate rest on the bottom grill channel.

Insert the two cut bars in the top grill channel and slide the feed opening up until it is tight with the two cut bars.

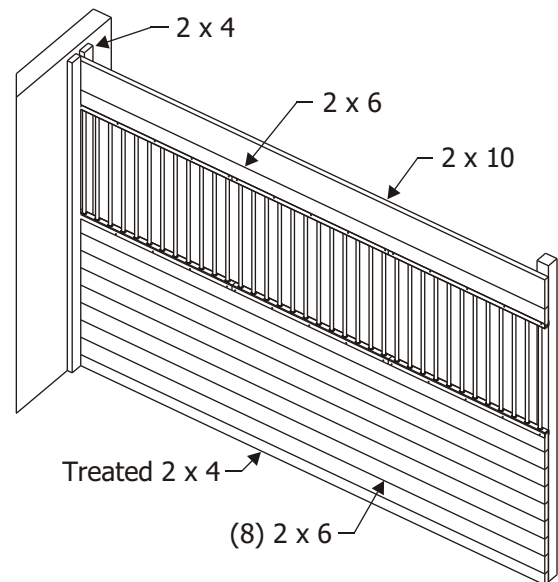
Use self-drilling screws to hold feed opening plate in place through holes in feed opening plate.

## Partition Assembly - Grilled

Installation of the grilled partition is similar to the stall front except for the length of boards required. Refer to Front Wall Assembly.

Depending how your outside walls are constructed, you may need to add 2 x 4's to your outside wall to use as a bracing for the partition boards.

Three grill sections may be required, depending on your wall length. Trimming of the grill may also be required.

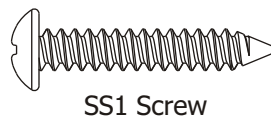
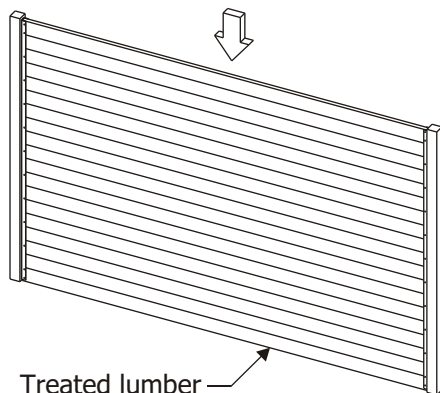


## Partition Assembly - Solid

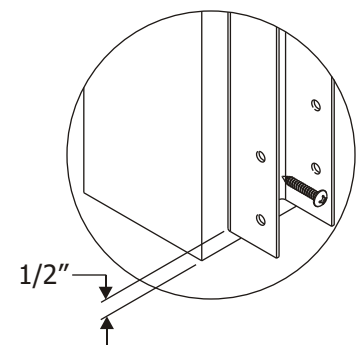
Place 94 1/2" U-channels 1/2" above floor and centered on posts or on outside wall.

Check that channels are level and plumb.

Fasten with provided SS1 screws through holes in channel.



SS1 Screw



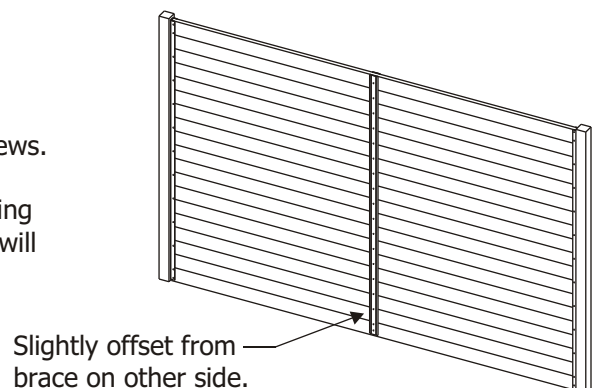
Cut lumber 1/4" to 3/8" less than the distance measured between the inside faces of the U-channel.

Slide first board down to the bottom of the U-channel ensuring that it is level. Pressure treated lumber can be used for the bottom of the stall wall. When using pressure treated lumber, proper coated screws must be used.

Secure boards with SS1 screws.

Center a 94 1/2" wall brace on the wall and fasten with SS1 screws.

Place another wall brace on the opposite side of the wall offsetting it slightly from the previously installed wall brace so the screws will not interfere with each other when attaching.



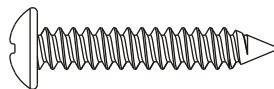
# Partition Assembly - Privacy

NOTE: These instructions are for a 48" grill. When using larger grills, cutting of the wall brace and other modifications may be necessary.

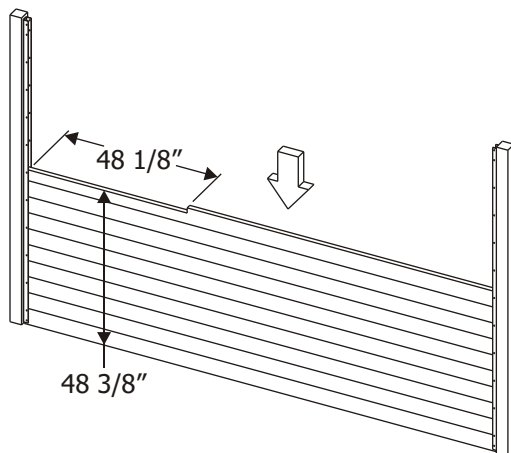
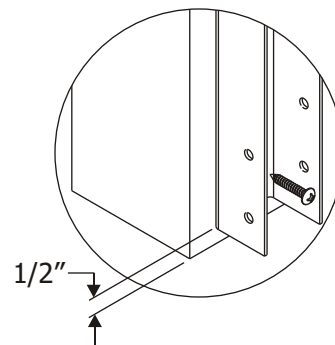
Place 94 1/2" U-channels 1/2" above floor and centered on posts or on outside wall.

Check that channels are level and plumb.

Fasten to post with provided SS1 screws through holes in channel.



SS1 Screw



Cut lumber 1/4" to 3/8" less than the distance measured between the inside faces of the U-channel.

Slide first board down to the bottom of the U-channel ensuring that it is level. Pressure treated lumber can be used for the bottom of the stall wall. When pressure treated lumber is used, proper coated screws must be used.

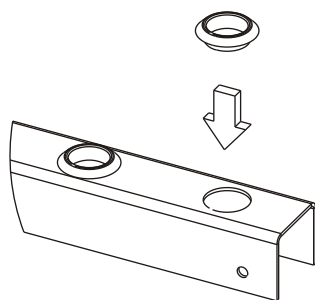
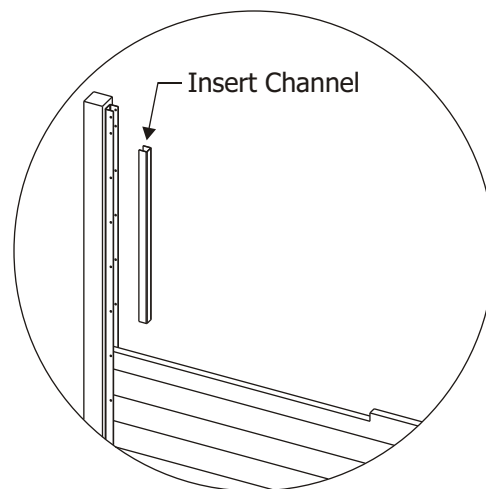
Secure bottom board with provided SS1 screws before installing the remaining boards.

Slide in approximately 9 to 10 boards depending on the board width you are using.

Cut top board, as necessary, so top of board is approximately 48 3/8" from floor and 48 1/8" from edge of 94 1/2" U-channel.

Fit insert channel into 94 1/2" U-channel so face is flush with edge of 94 1/2" U-channel and bottom edge is resting on top of board.

DO NOT fasten insert channel to 94 1/2" U-channel at this time. Final adjustments will be made after grill is completely installed.

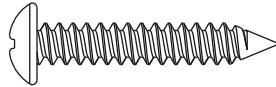


Firmly press in rubber grommets into holes for the top and bottom grill channels.

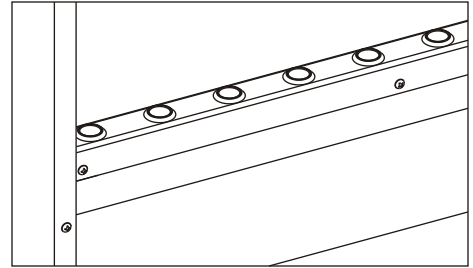
## Partition Assembly - Privacy (cont.)

Place bottom grill channel over top board and against 94 1/2" U-channel.

Fasten with SS1 screws provided.



SS1 Screw



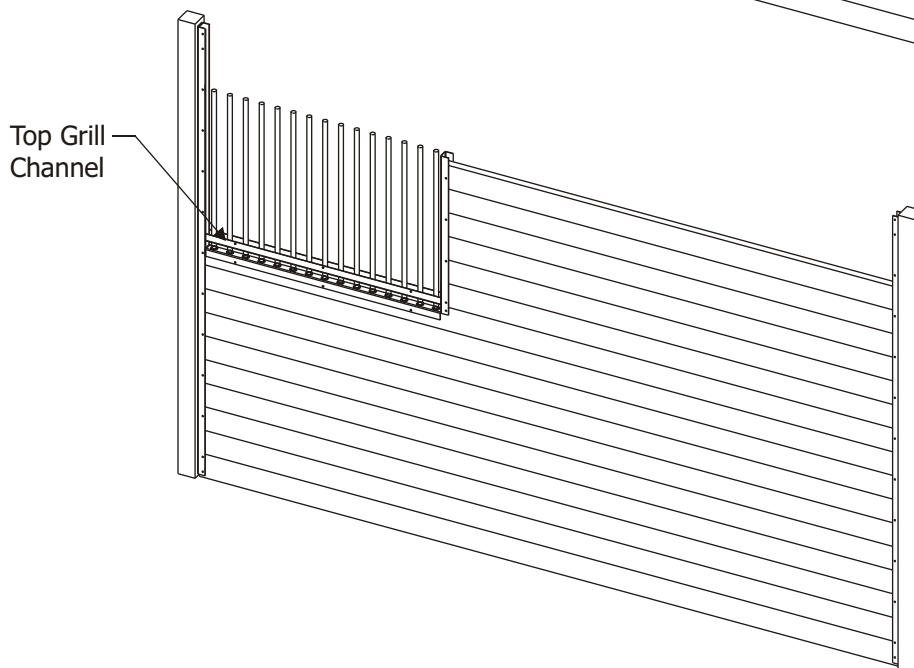
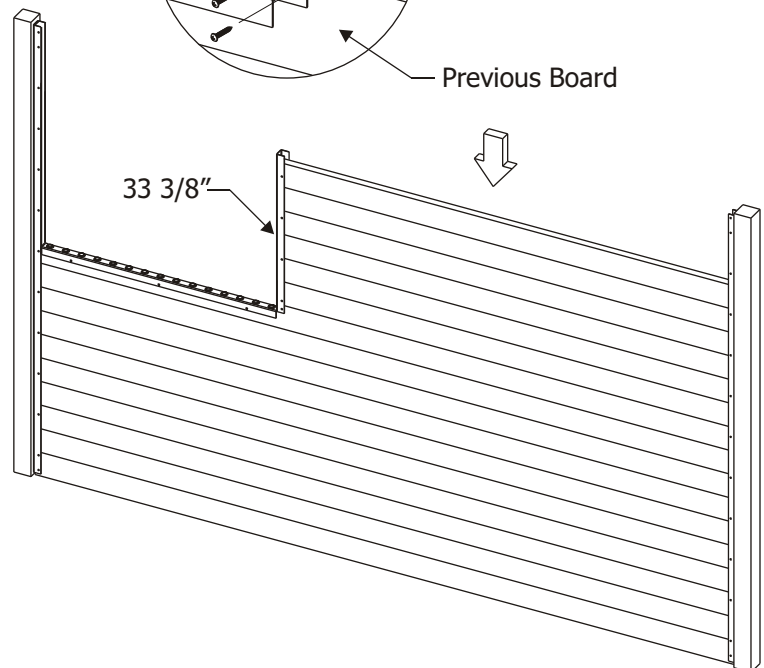
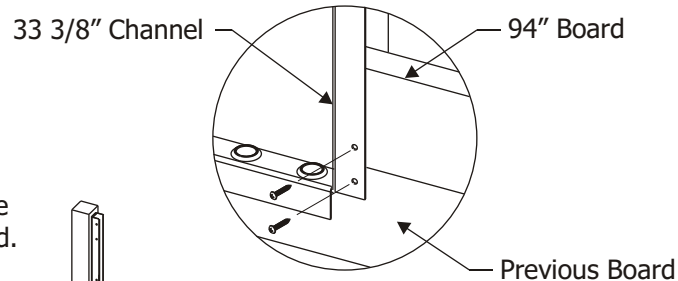
Cut a 46 1/2" U-channel to 33 3/8".

Cut 6 boards to 94" (for a 48" grill).

Set a cut board on top of the previous board and set the 33 3/8" U-channel down onto the end of the bottom grill channel and cut board.

Fasten U-channel to boards with SS1 screws to help hold in place.

Continue adding boards and SS1 screws as you work your way up. Be sure to keep channel plumb as you add boards.



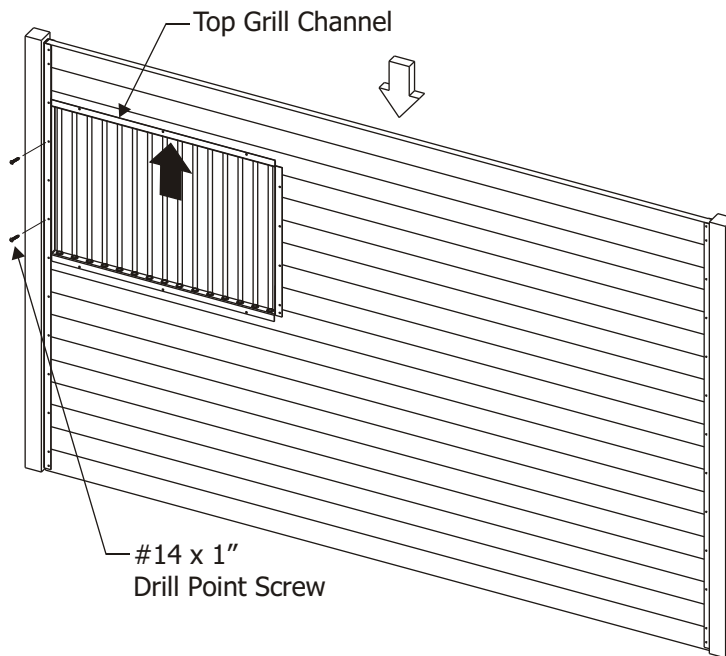
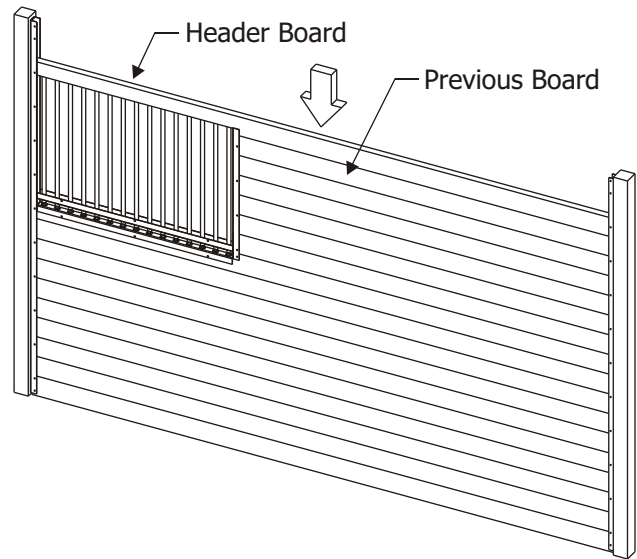
Align top grill channel over bottom grill channel.

Slide grill bars through holes in top and bottom grill channel.

## Partition Assembly - Privacy (cont.)

Add header board on top of grill bars and the previous board.

You may have to cut out the header board so it sits on the grill bars and previous board.

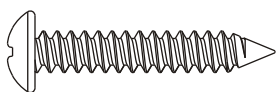


Slide top grill channel up onto header board and fasten with SS1 screws.

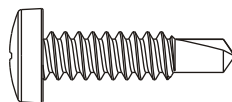
\* TIP: Use soapy water or cooking spray on the grill tubes to aid in sliding the top grill channel up.

Check that insert channel is not showing any gaps at the top or bottom where it meets the grill channels. Secure with provided #14 x 1" drill point screws, 2 on both sides.

Add remaining 2 boards and be sure all boards are fastened to the U-channels with SS1 screws.



SS1 Screw



#14 x 1"

Center a 94 1/2" wall brace on the wall and fasten with SS1 screws.

Place another wall brace on the opposite side of the wall offsetting it slightly from the previously installed wall brace so the screws will not interfere with each other when attaching.

