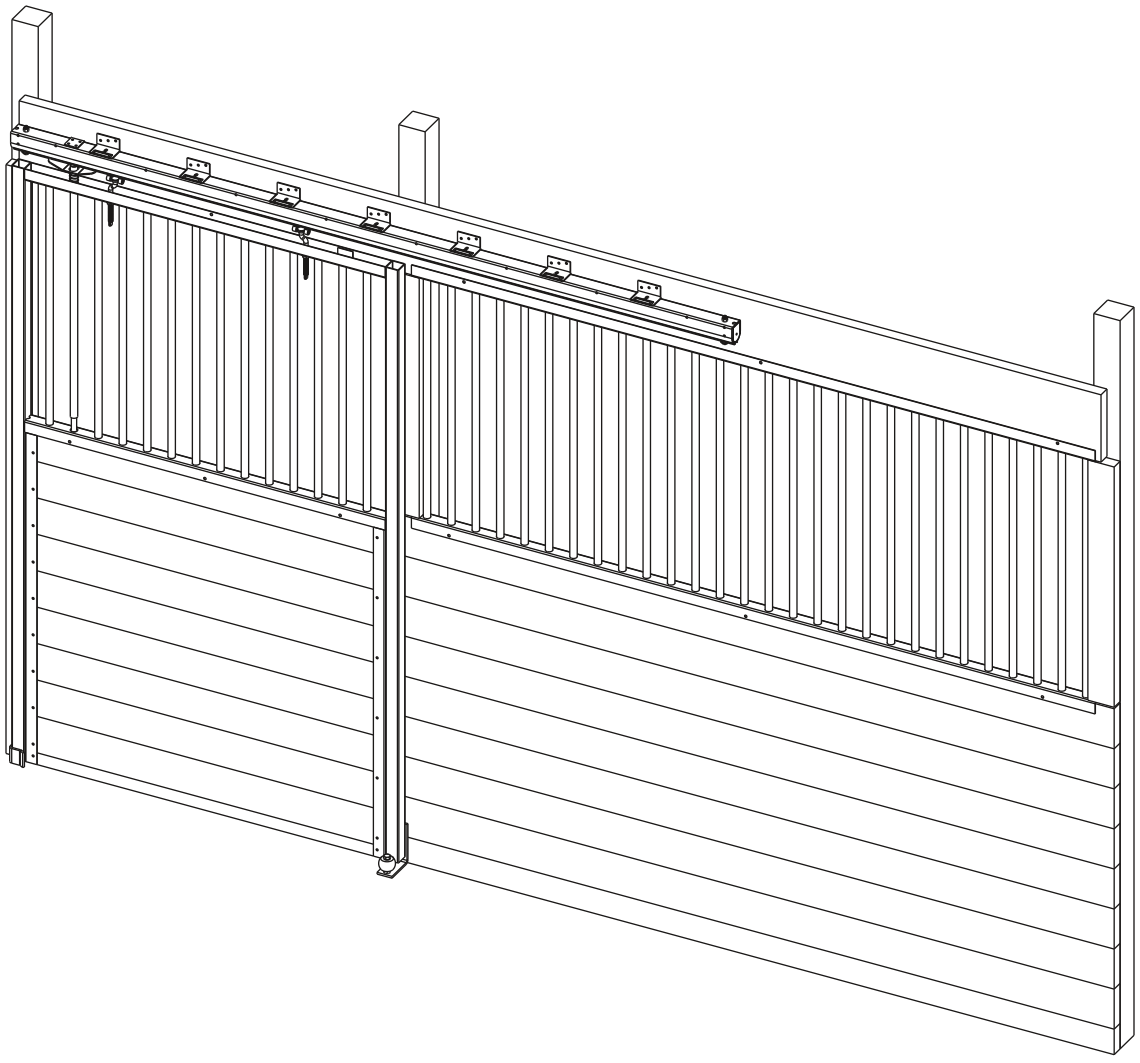
RAMM
Horse Fencing & Stalls

Cambridge Stalls

Installation Instructions



RAMM Horse Fencing and Stalls
13150 Airport Hwy.
Swanton, OH 43558-9615
1-800-434-8456

Rev. 10/27/2023

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 4 x 4, 4 x 6 or 6 x 6. 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 4 x 4 center support post.
- Drilling pilot holes is recommended to prevent splitting of wood.

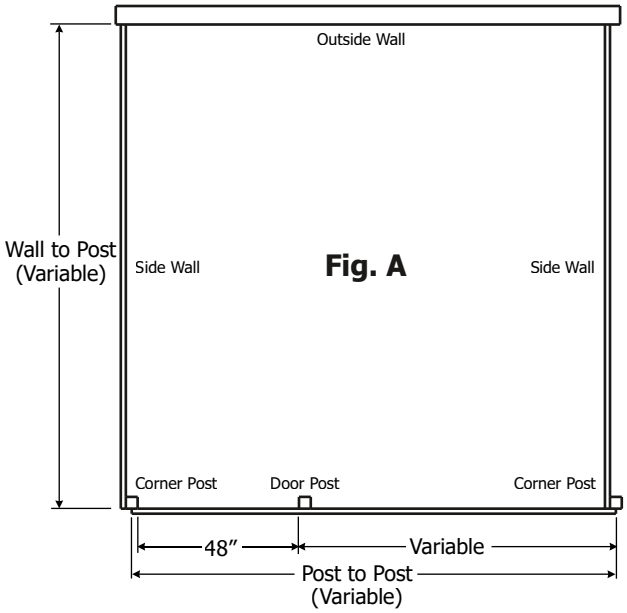


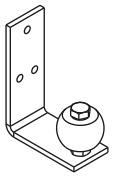
Fig. A

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
Upper Header	2 x 10 @ 120″	1
Post Filler	2 x 4 @ 80 7/8″	1
Grill Post Filler	2 x 4 @ 33″	2
Door Boards	2 x 6 @ 50 1/2″	9

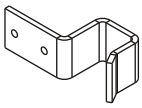
12′ Stall Front Wood Cut Chart		
Description	**Size**	**QTY**
Lower Wall Front	2 x 6 @ 96″	8
Lower Wall Front (Pressure Treated)	2 x 4 @ 96″	1
Upper Header	2 x 10 @ 144″	1
Post Filler	2 x 4 @ 80 7/8″	1
Grill Post Filler	2 x 4 @ 33″	2
Door Boards	2 x 6 @ 50 1/2″	9

Part Identification

(Quantities per stall front)



Stay Roller (1)

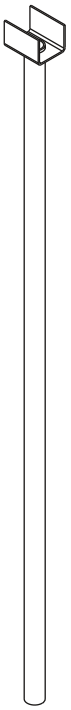


Post Bumper (1)

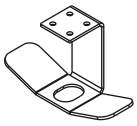
Round Track Bracket (7) (Not Painted)

Round Track End Caps (2)

Latch Bar (1)

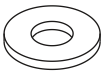


Filler Bar (1)



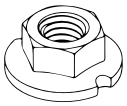
Round Track Latch Bracket (1) (Not Painted)

3/8″ Lock Nut Trolley Stop (1)

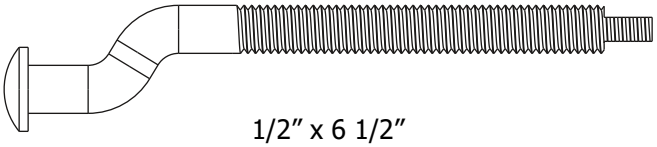


3/8″ Washer Trolley Stop (1)

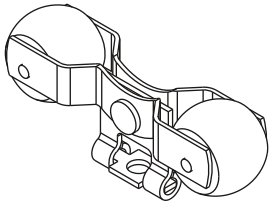
1/2″ Nut Trolley Bolt (2)



1/2″ Flange Nut Trolley Bolt (2)



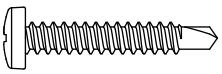
1/2″ x 6 1/2″ Trolley Bolt (2)



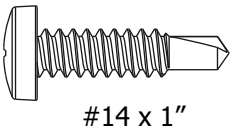
Trolley Wheels (2)

O-Ring (2)

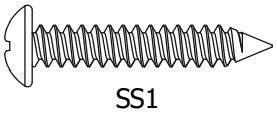
(Screws shown actual size)



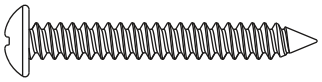
#8 x 1″ Filler Bar (2)



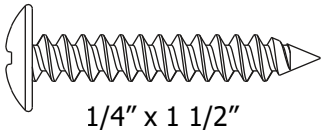
#14 x 1″ Latch Bracket (4)



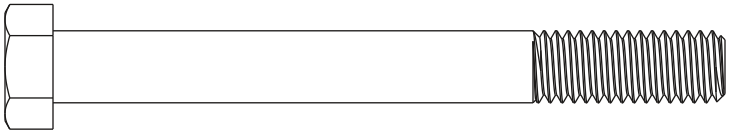
SS1 Stall Wood



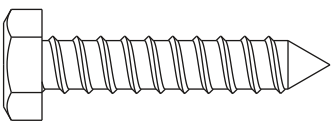
#10 x 1 1/2″ Round Track Bracket (21)



1/4″ x 1 1/2″ Stay Roller (3)



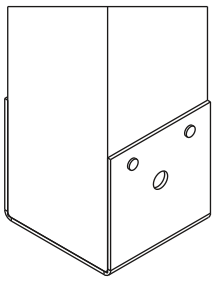
3/8″ x 3 1/2″ Trolley Stop (1)



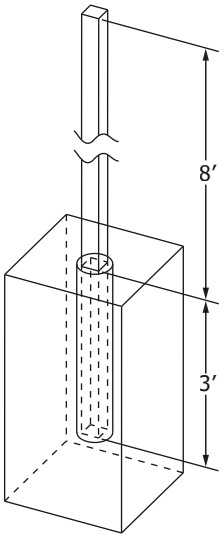
5/16″ x 1 1/2″ Post Bumper (2)

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.



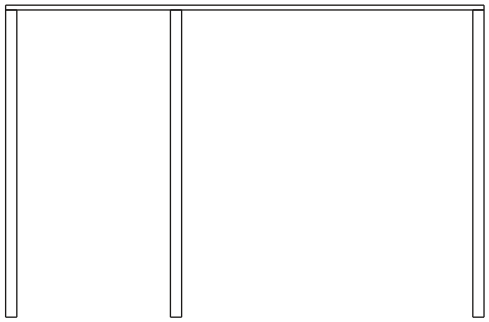
Post Anchor Plate



Augered in Ground

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.

V-Door

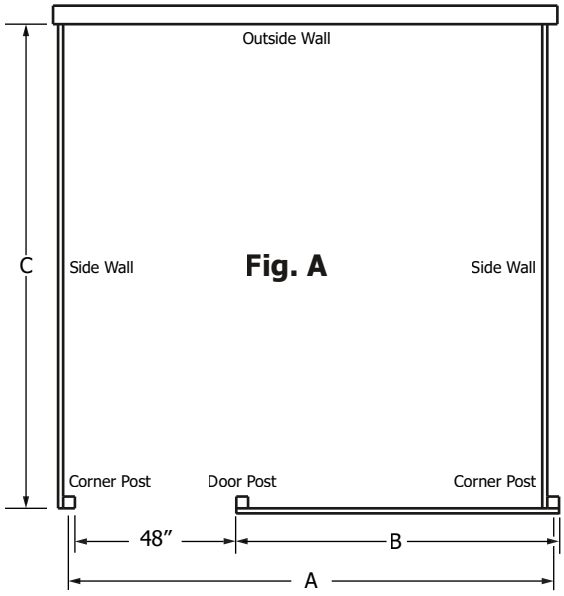


Fig. A

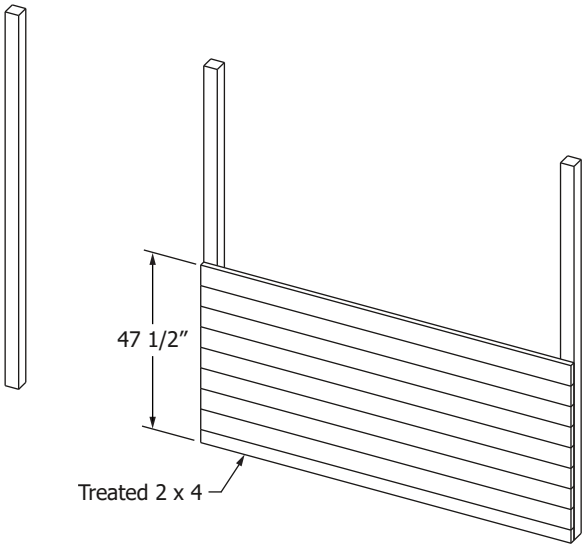
Stall Dimensions using 4 x 4 (3 1/2″ x 3 1/2″) Posts		
Dimension	10′ Stall Front	12′ Stall Front
A	120″	144″
B	72″	96″
C	120″	144″

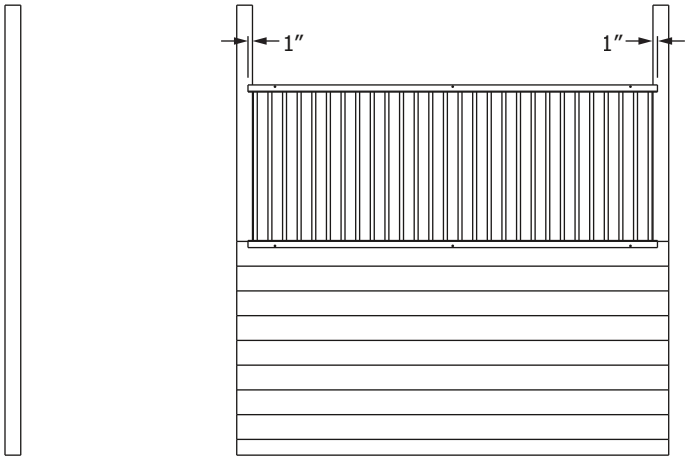
CHECK FOR SQUARE: Measure from one corner diagonally to the opposite corner (top left to bottom right) and repeat for the other corner. Measurements should be the same. If they are not, tap the corner of the longest measurement until you have two equal measurements. This will ensure your work is square.

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.

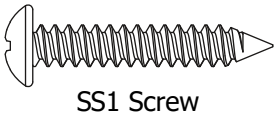




Place the grill on top of the top board 1" from the edge of posts.

Fasten with supplied SS1 screws.

Finish securing top 2 x 6 board.

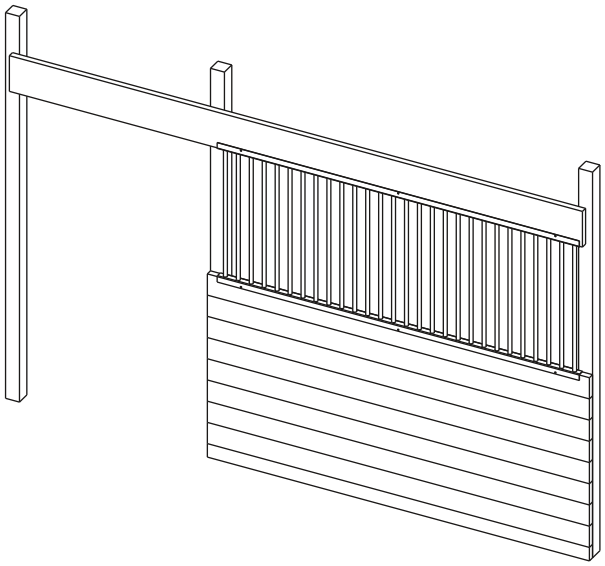


SS1 Screw

Set 2 x 10 on top of the grill.

Level and screw 2 x 10 in place.

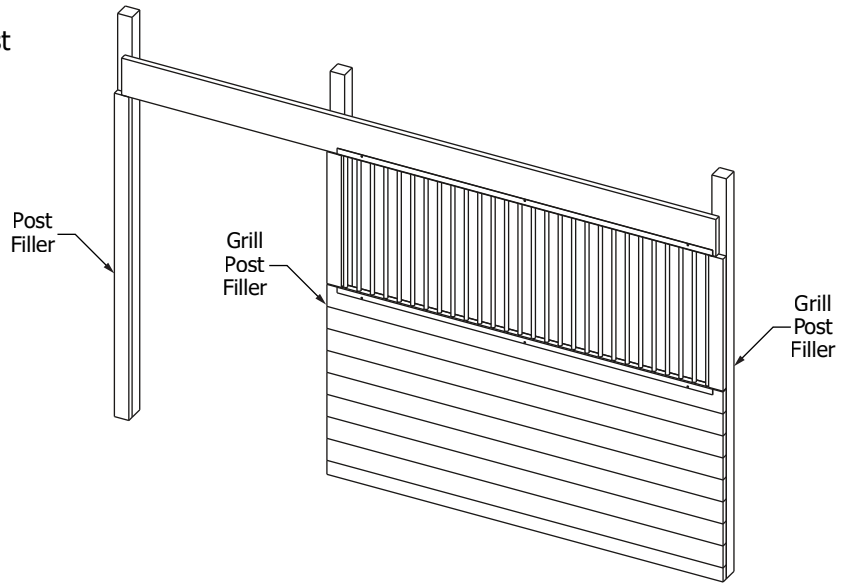
Fasten top grill channel to 2 x 10 with SS1 screws.



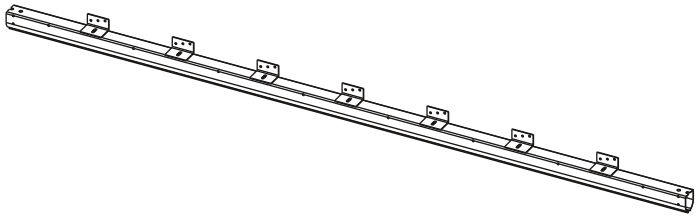
Front Wall Assembly (cont.)

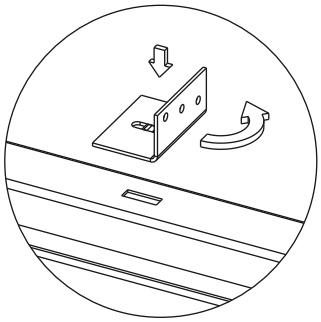
Measure (33”), cut and install the grill post filler to fit in between the top and bottom grill channels.

Measure (80 7/8”), cut and install the post filler on the post the door closes towards.



Track Installation

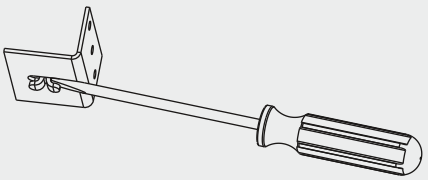




Insert tabs on track bracket into slot on top of round track.
Note: Brackets will not be painted even with a black track.

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.



Track Installation (cont.)

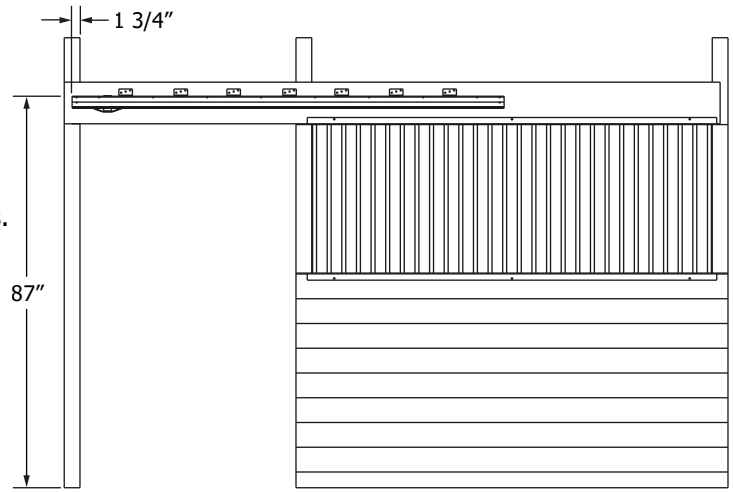
Position top of track 87" from floor and 1 3/4" from door opening edge of post.

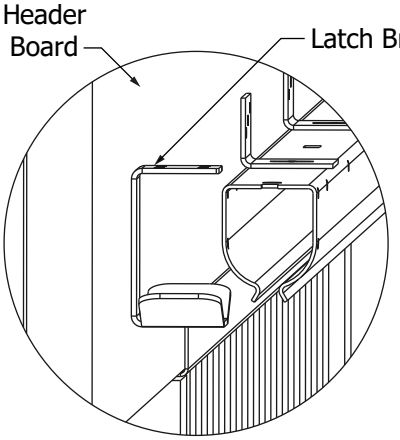
"Sandwich" latch bracket between round track and header board.

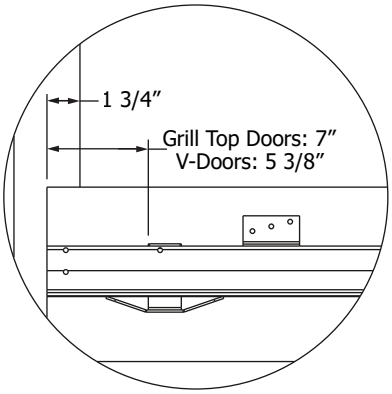
Position latch bracket approximately 7" from the edge for grill top doors, and 5 3/8" for V-Doors.

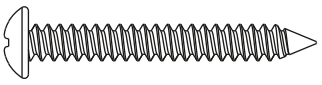
Fasten round track to header board.

Do not fasten latch bracket at this time. Final adjustments will be made when door is installed.





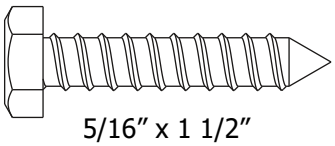




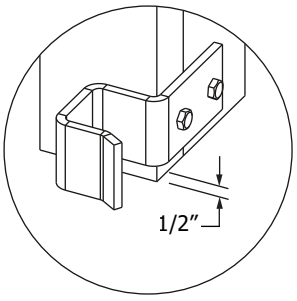
#10 x 1 1/2" (21)
Round Track Bracket

Post Bumper Installation

Attach post bumper to bottom of corner post approximately 1/2" above floor with provided 5/16" x 1 1/2" lags.



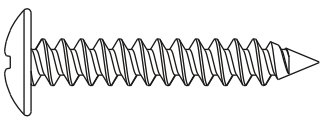
5/16" x 1 1/2"



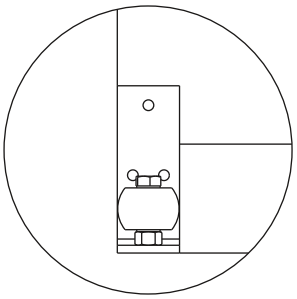
Stay Roller Installation

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

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

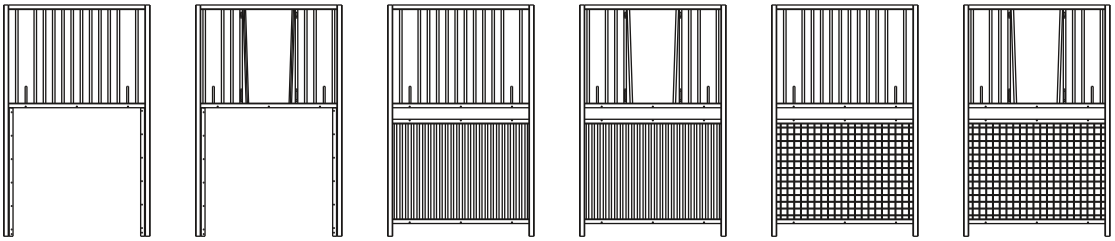


1/4" x 1 1/2" Stay Roller (3)



Stall Door Assembly

The door comes almost completely assembled except for the wood, filler bar, latch bar and trolleys.



Grill Top | V-Door | Full Grill | Full Grill V-Door | Grill Top Mesh Bottom | V-Door Mesh Bottom

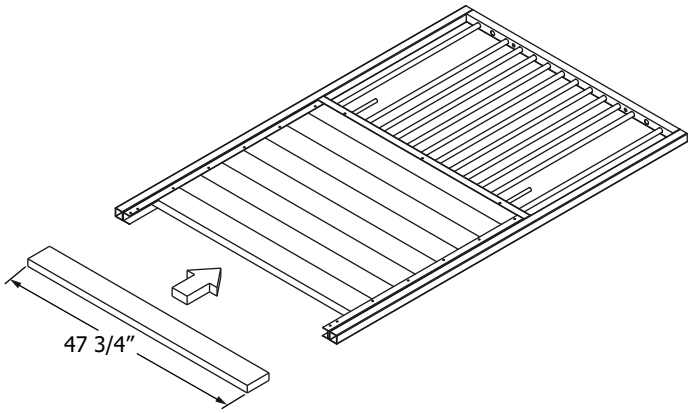
Grill Top & V-Door

Cut lumber to 47 3/4". The number of pieces will vary depending on the material used.

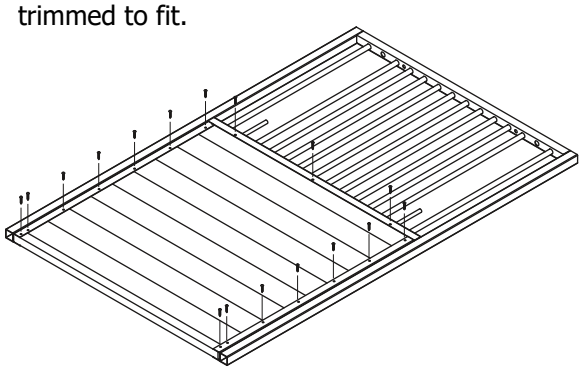
Slide first piece inside the channels up from the bottom until it seats inside the bottom of the grill section.

NOTE: The first few boards may fit tight and require a mallet to tap into place.

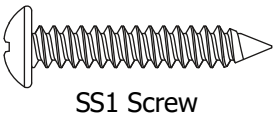
Make sure the first piece has a flat square top. DO NOT insert screws at this time.



Insert the remaining lumber and fill to the bottom of the door. The bottom piece may need to be trimmed to fit.



Secure boards through holes running along the sides of the U-channel and bottom of the grill section with SS1 screws.



SS1 Screw

Only put screws on front or outside of stall door.

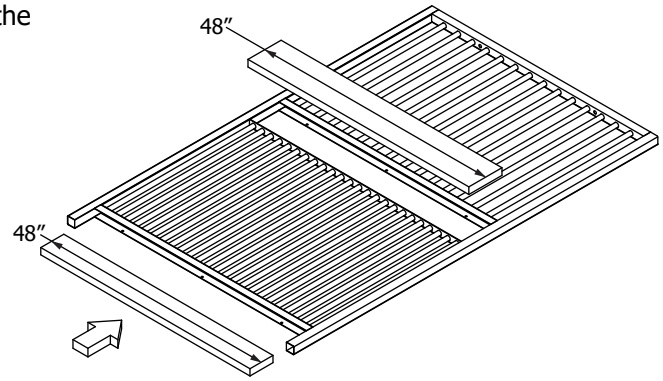
Full Grill & Mesh Bottom Doors

Insert a 7 1/2" x 48" (2 x 8) piece of lumber into the bottom of the top grill section then down onto the grill angle of the bottom section. Ripping of board may be necessary.

Fasten from the front side through the holes in the grill channel and grill angle with provided SS1 screws.

Insert a 5 1/2" x 48" (2 x 6) piece of lumber into the bottom channel. Board should be flush with bottom edge of end tubes. Trim board as necessary.

Fasten with provided SS1 screws through holes in channel.

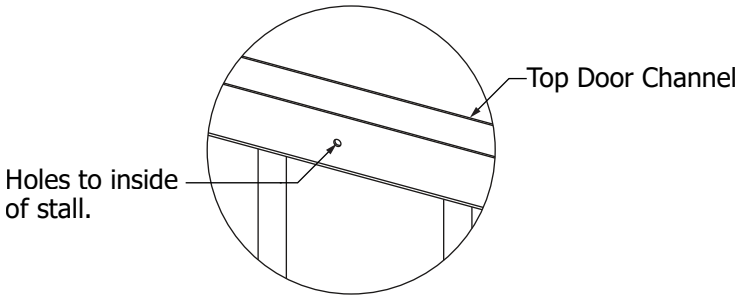


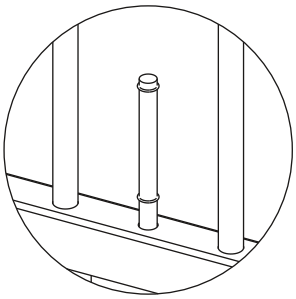
Filler Bar Installation

Determine which way door will slide.

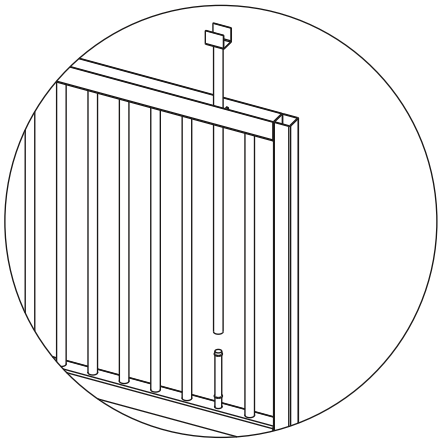
The holes in the top door channel will be on the inside of the stall.

Filler bar will be installed over the guide post opposite the latch bar.





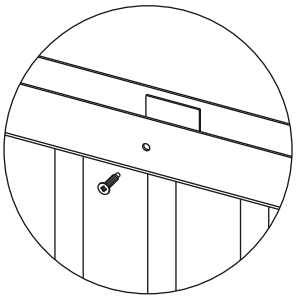
Slide two O-rings over the guide post approximately 1” from the bottom and 1/2” from the top.



Insert filler bar from the top and slide down over guide post.

Be sure filler bar is seated completely down.

Use a block of wood and hammer or rubber mallet if necessary to tap filler bar down.



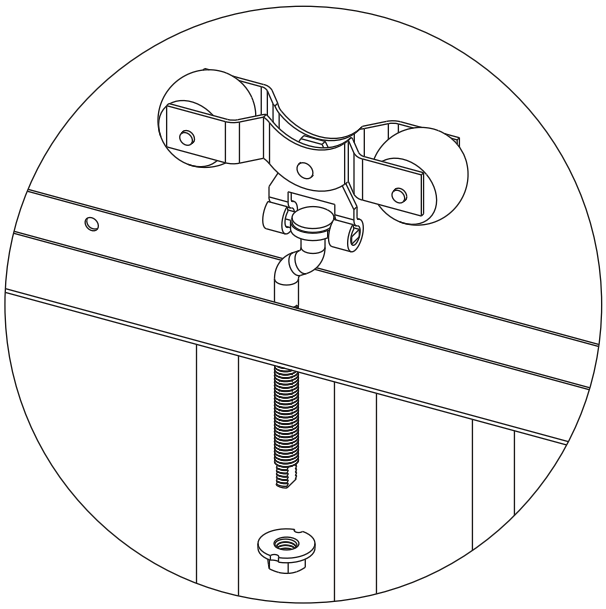
Secure filler bar with provided Low-Profile screws through holes in top door channel.

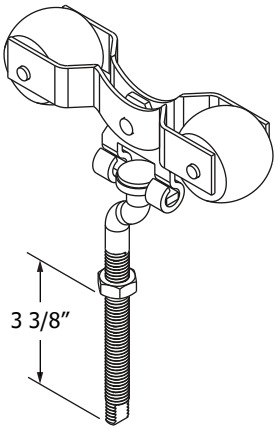
#8 x 1”
Filler Bar (2)

Trolley Installation

Insert trolley bolt through hole in trolley.

Screw nut approximately 3 3/8” onto bolt.



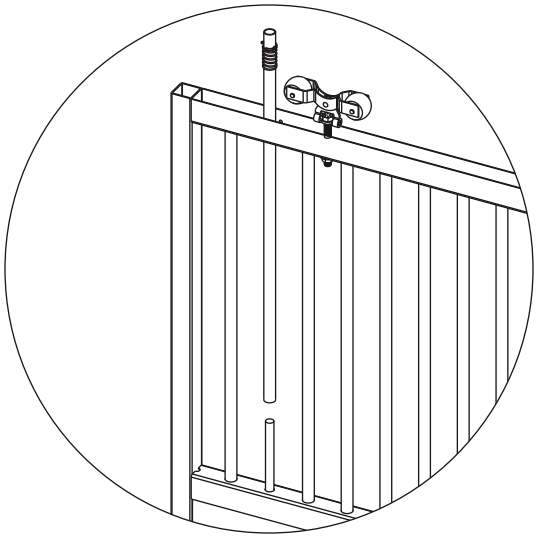


Insert trolley through holes in top of door.

Thread flange nut onto trolley bolt. Do not fully tighten. Final adjustments will be made after stall front is complete.

Latch Bar Installation

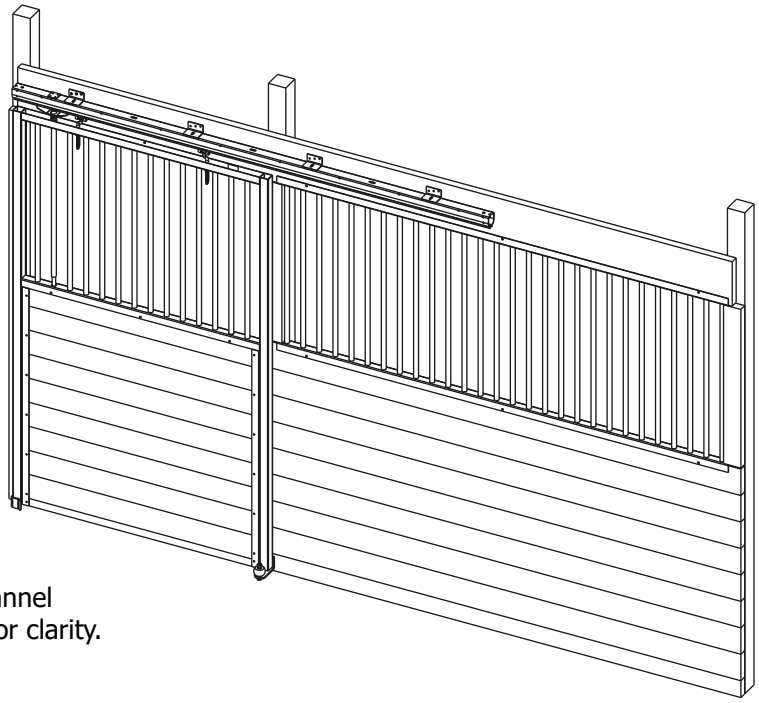
Insert latch bar through the top of the door with spring between the channel and cotter pin.

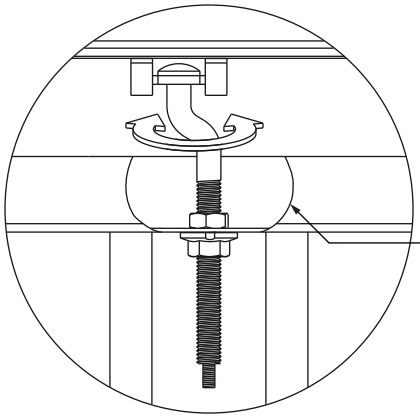


Latch Catch/End Cap Installation

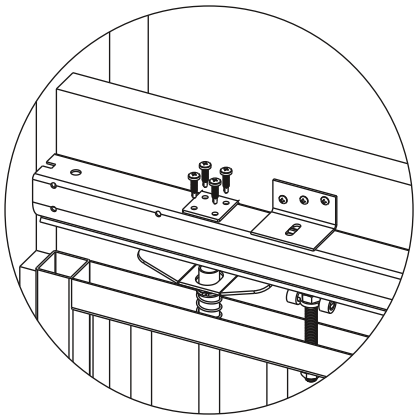
Slide rollers into end of track and roll door to closed position.

Twist trolley bolt as necessary to plumb door and adjust jam and flange nuts up or down to level door for smooth operation.



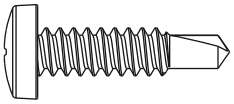


Side of channel cut-away for clarity.



With door in the closed position, fully seated in the door stop, adjust latch bracket as necessary so latch bar engages hole in latch bracket.

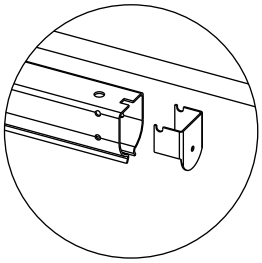
Fasten latch bracket to round track through holes with provided screws.

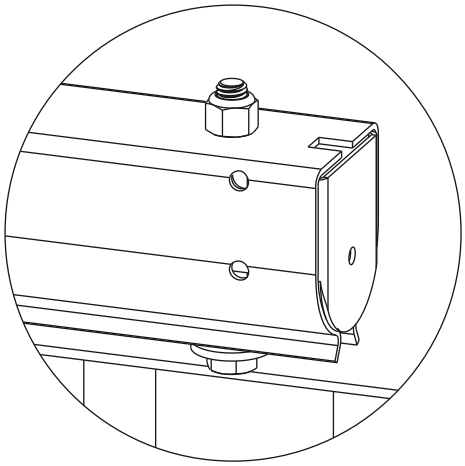


#14 x 1" Drilling

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.

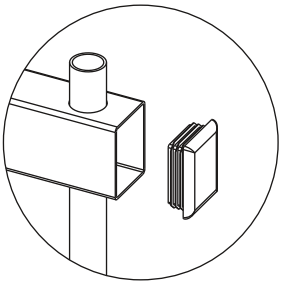
Snap in track end caps on both ends of track.

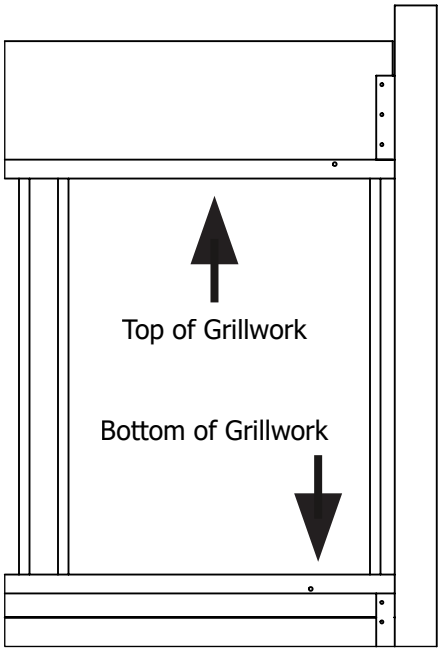




Feed Door Option

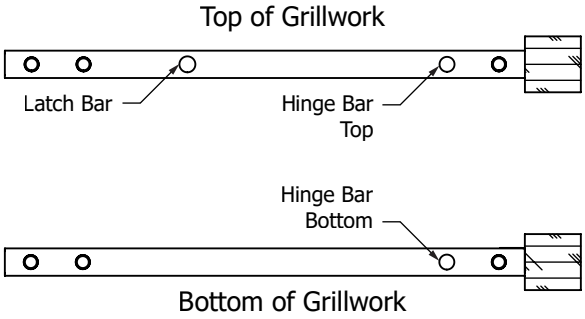
Insert supplied caps into ends of feed door tubes.

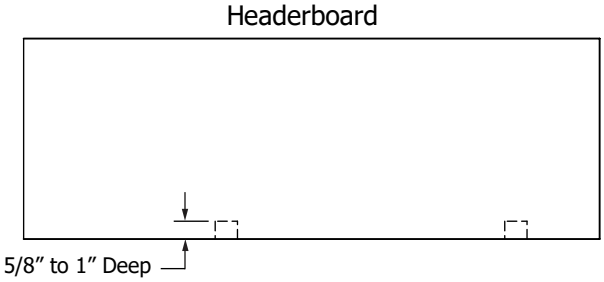


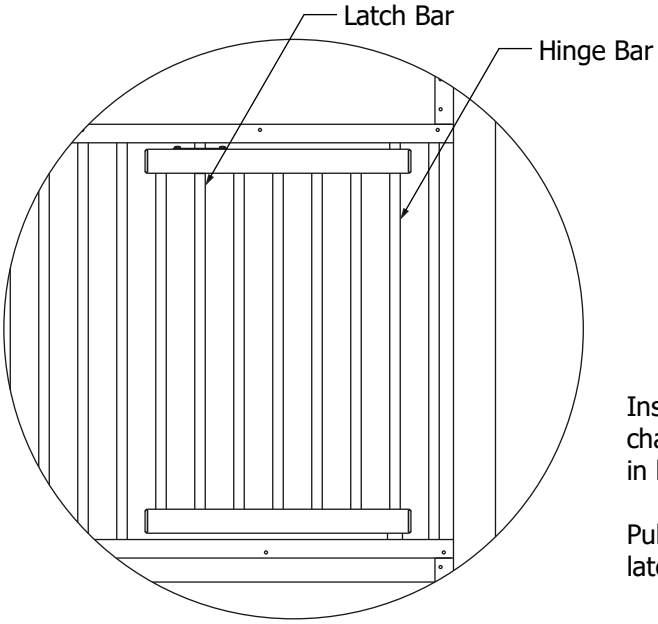


During assembly "dry fit" Grillwork into place. Do not Fasten at this stage. Mark holes on the board at the bottom of the Grillwork as well as header board at the top of the Grillwork.

Drill / notch boards 1" to 1 1/8" dia / wide, 5/8" to 1" deep. This is to allow for the installation of the feed door hinge and latch bars .







Insert top of hinge bar completely up into hole in top channel then set bottom of hinge bar down into hole in bottom channel.

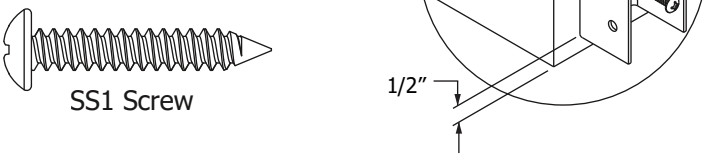
Pull latch bar down and swing into place and latch into latch hole.

Partition Assembly - Grilled

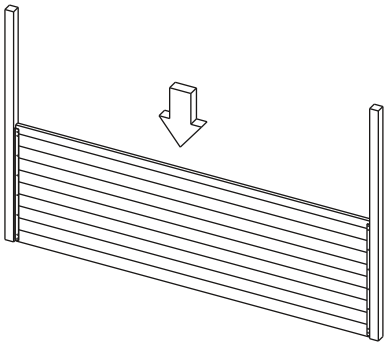
Place 46 1/2" U-channels 1/2" above floor and centered on posts or on outside wall.

Check that channels are level and plumb.

Fasten with provided SS1 screws through holes in channel.



SS1 Screw

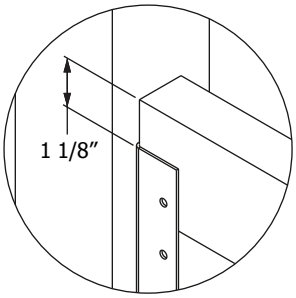


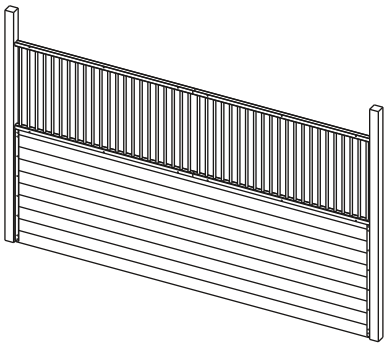
Cut lumber 1/4" to 3/8" less than the distance measured between the inside faces of the U-channel.

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 pressure treated lumber is used, proper coated screws must be used.

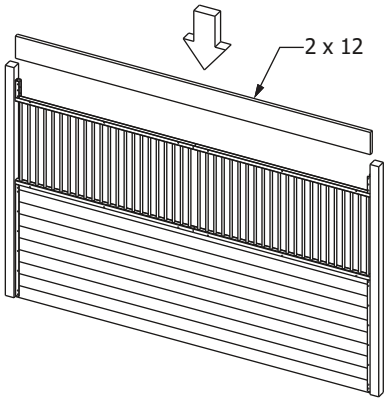
Secure bottom board with provided SS1 screws before installing the remaining boards.

Install remaining boards ensuring the last board is 1 1/8" above the U-channels. It may be necessary to rip a board to achieve the correct height.





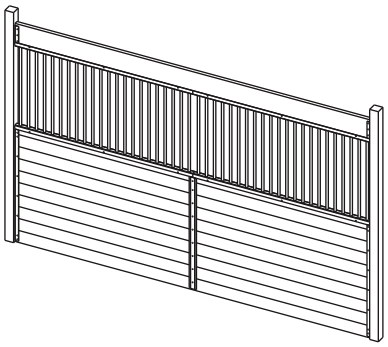
Fit the grillwork section over the last board so it rests on top of the U-channel ends.



Place 7" U-channels against posts flush with the top of grillwork and fasten to posts with provided SS1 screws.

Slide 2 x 12 board into 7" U-channels and push down into top channel of grillwork.

Install SS1 screws through holes in U-channels securing all boards.



Center a 46 1/2" wall brace on the wall and fasten with SS1 screws.

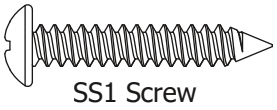
Place another wall brace on the opposite side of the wall offsetting it slightly from the previously installed wall brace so the screws will not interfere with each other when attaching.

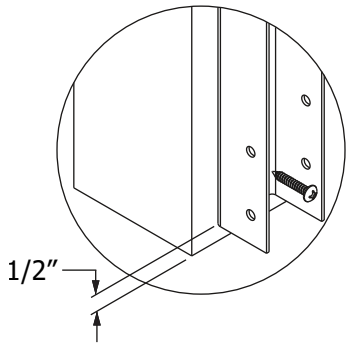
Partition Assembly - Solid

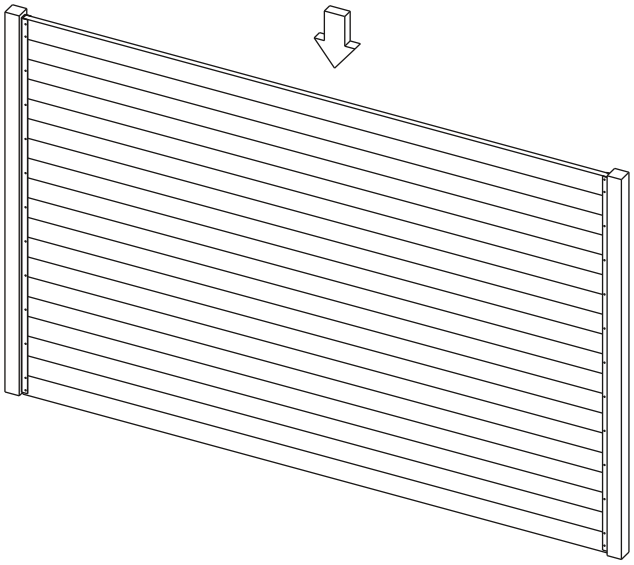
Place 94 1/2” U-channels 1/2” above floor and centered on posts or on outside wall.

Check that channels are level and plumb.

Fasten with provided SS1 screws through holes in channel.







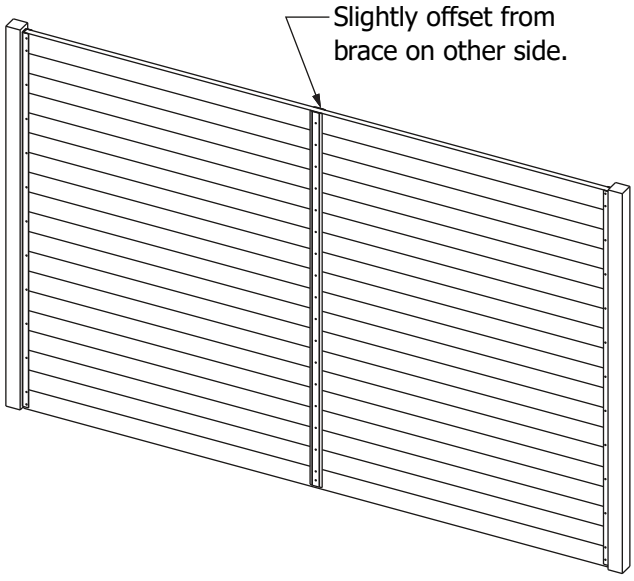
Cut lumber 1/4” to 3/8” less than the distance measured between the inside faces of the U-channel.

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.



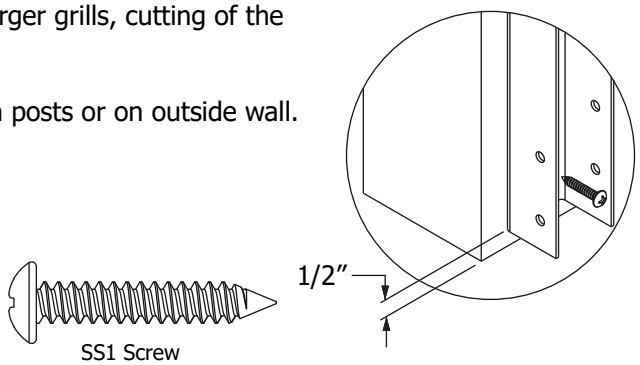
Partition Assembly - Privacy

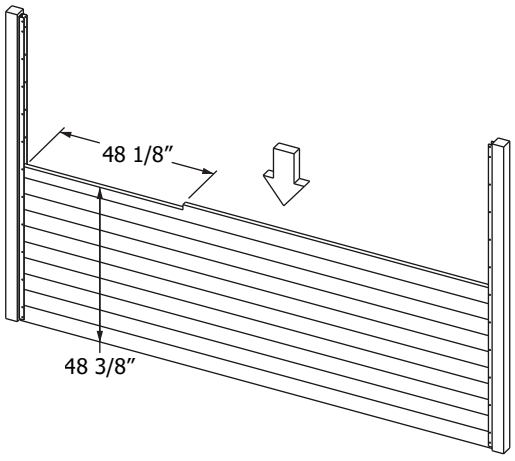
NOTE: These instructions are for a 48” grill. When using larger grills, cutting of the wall brace and other modifications may be necessary.

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 with provided SS1 screws through holes in channel.





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.

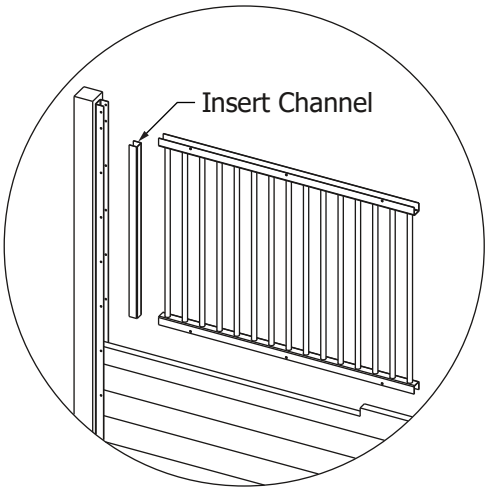
Secure bottom board with provided SS1 screws before installing the remaining boards.

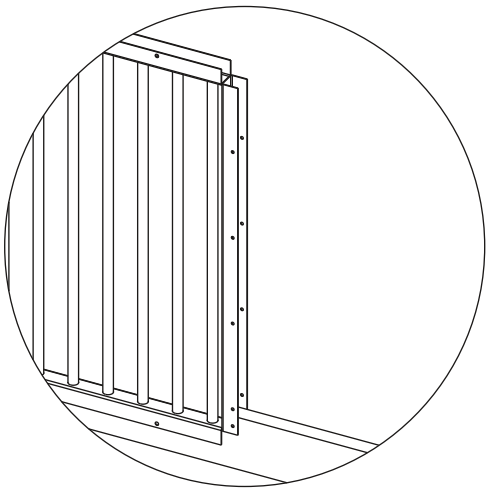
Slide in approximately 9 to 10 boards depending on the board width you are using.

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.





Cut and fit a 46 1/2” U-channel against grillwork.

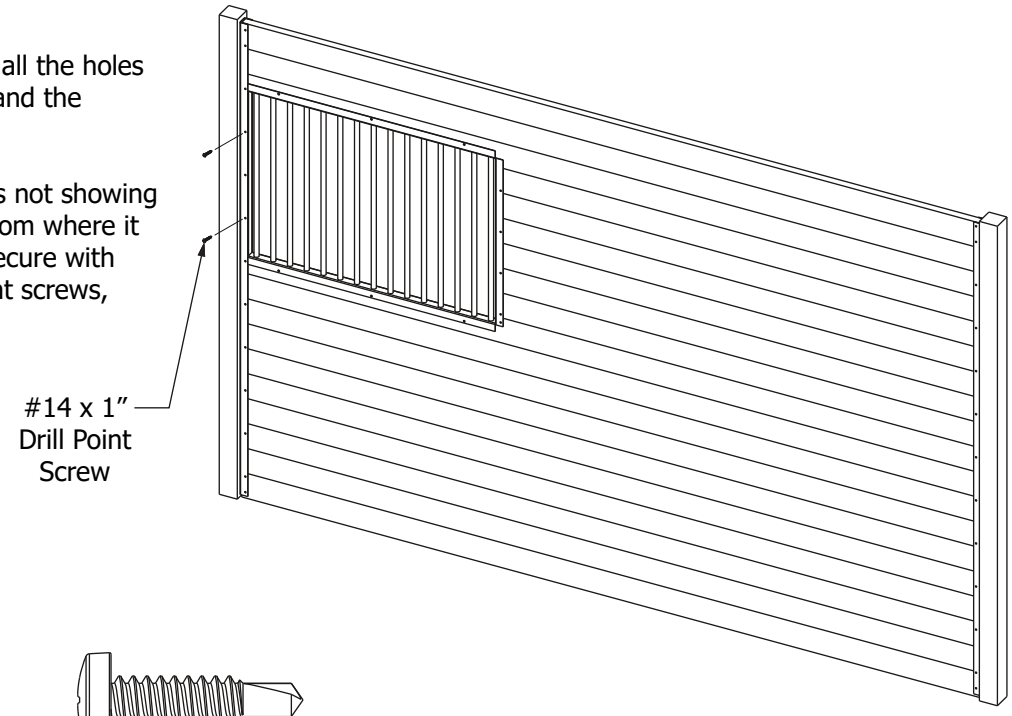
If you prefer to have the U-channel flush with outside edges of the grillwork, cut U-channel to length then notch out ends so boards can pass through.

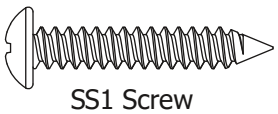
Partition Assembly - Privacy (cont.)

Install remaining boards, cutting and ripping as necessary.

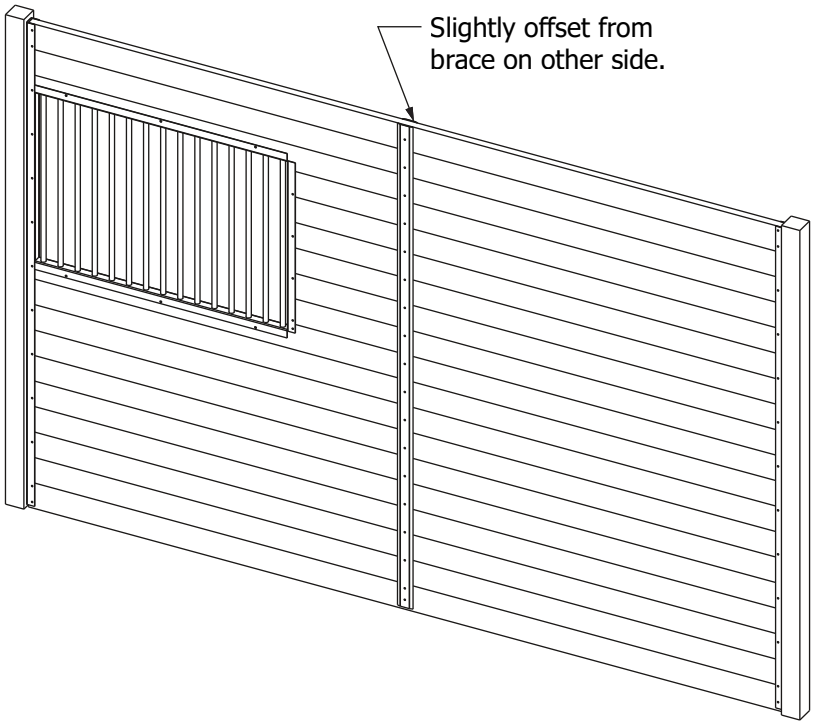
Install SS1 screws through all the holes securing boards, grillwork and the U-channel.

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.




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.

NOTE: If using a longer grillwork, cut the 94 1/2" wall brace to fit above and below the grillwork.