

STALL DOOR ASSEMBLY:

ASSEMBLY OF FRAME, CHANNELS, BOARDS AND GRILL

PARTS:

- 2- Stall Door Side Rails: 2" x 2" x 84 3/4" with two welded pins, one at each end. The top pin has a 1/2" welded on hex nut to fasten trucks to later.
- (2)- Stall Door Top/Bottom Rail: 2" x 2" x 58", (2)- Channels 41" long, (6)- 2 x 8 x 69 3/8" boards, (1)- Grill
- (16)- #12 x 1" Self-Drilling screws, (8)- #12 x 1 1/2" self-drilling screws

STEP 1:

Assemble Stall Door Side Rails and Stall Door Top/Bottom Rails as shown. Fasten the joints with (2) #12 x 1" Self-Drilling screws. NOTE: The Side Rail pins with the welded on nuts go at the top of the door.

STEP 2:

Attach two 42" Channels to the frame as shown with (3) # 12 x 1" Self-Drilling Screws per channel. Leave a 1/4" gap between the top of the bottom rail and the bottom of the channels. (This will clear the welds)

STEP 3:

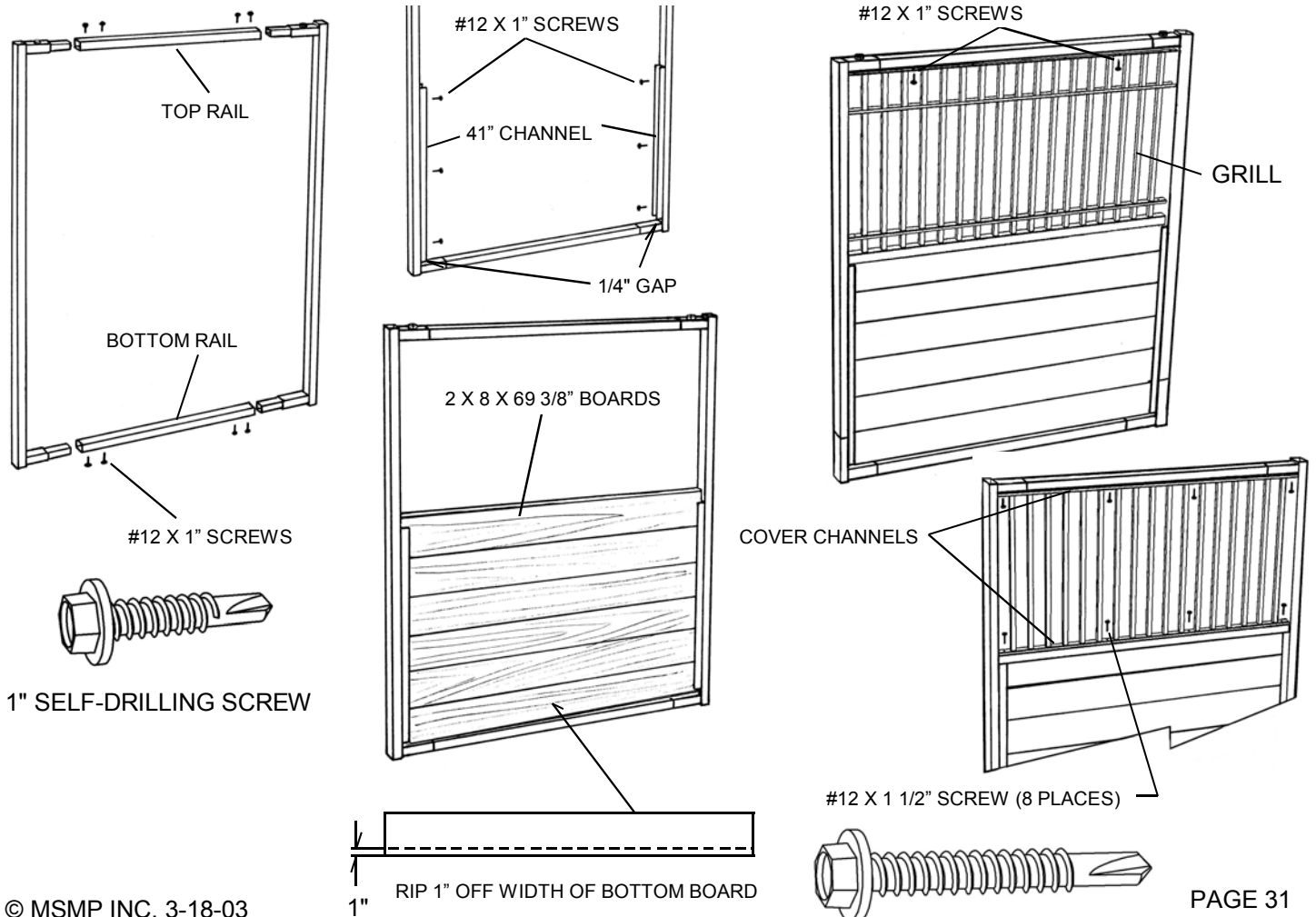
Cut 2 x 8 boards to 69 3/8" long and rip 1" of material off one of the boards. This will reduce the width of that board to 6 3/8" wide. Place the 6 3/8" wide board into the channels first (it will be the bottom board). Now, load the remaining 5 boards into the channels.

STEP 4:

Place a Grill on the top board (channel side down). Fasten the top bar of the grill to the top door frame rail with (2) #12 x 1" Self-Drilling Screws 13" in from each end. (holes are provided)

STEP 5:

Slide The Cover Channels to the top and bottom of the Grill and fasten the top Cover Channel to the Top Door frame Rail with (4) #12 x 1 1/2" Self-Drilling screws. (holes are provided) Do not fasten the bottom Cover Channel at this time unless the wood that you are using is completely dry. 2 x 8 boards will shrink in width to about 7 1/8" wide. Install the 1 1/2" screws when the wood has had time to dry. If you install the screws with the wood wet you will have to come back later, remove and re-install the screws.



INSTALLATION OF STALL DOORS:

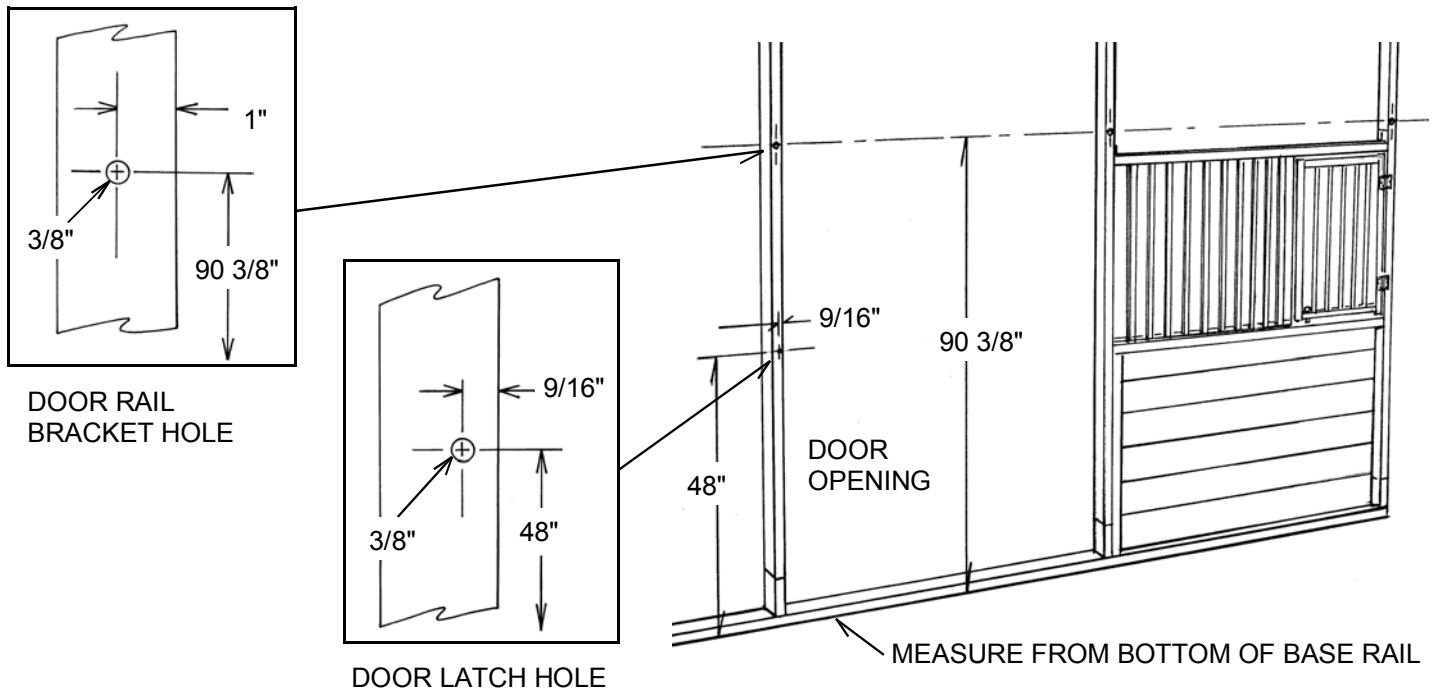
INSTALLING DOOR TRACKS:

NOTE: Stall doors will be hung on the left side of the stall fronts, down the center isle of the barn.

STEP 1: LOCATING AND DRILLING MOUNTING HOLES FOR DOOR TRACK BRACKETS AND STALL DOOR LATCH

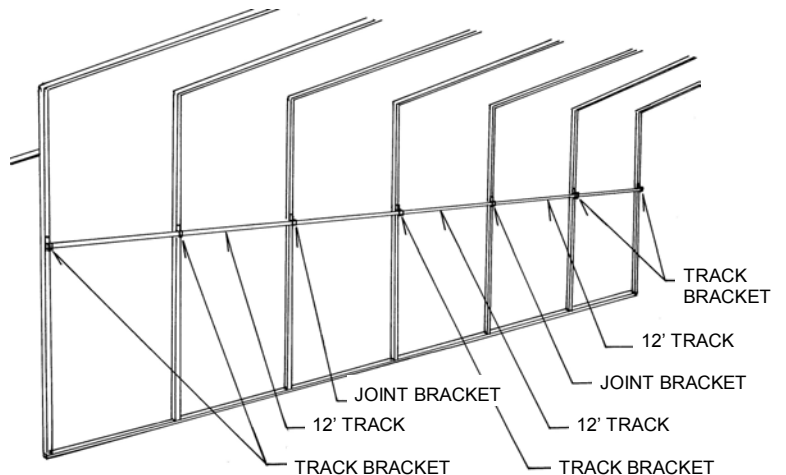
Measure up from the bottom of each frame post where door tracks will be hung $90 \frac{3}{8}$ " and mark the location in the center of the post. (Note that Door Tracks are 12' long and will typically but end to end down the entire length of the building.) Now, drill a $\frac{3}{8}$ " hole straight through each post at the mark. (If you do not have a $\frac{3}{8}$ " drill bit that will drill all the way through the 3" depth of the post, you can measure up an equal distance on the back side of the post or use a square to transfer the front marked dimension around the post to the back side. Drill the front wall hole from the front and the back side hole from the back.) This will be the mounting hole for the Track Brackets.

Holes for the Stall door Latch are also $\frac{3}{8}$ ". The Stall Doors will be located on the left side of each stall. The stalls are 12' wide and the Stall Doors are 6' wide. The hole for the Stall Door Latch should be located on the frame post at the left of each stall. Start with the first frame post on the left side of the center isle (either side of the isle). Measure up from the bottom of the frame base rail 48" and in from the right side of the post $\frac{5}{8}$ " and make a mark. This is the location of the Door Latch Hole. Drill hole through 1 wall only. (If you choose, you can drill the door latch holes after the doors are hung.) (The Door Latch is a barrel bolt type latch which you will attach to the stall door after the door is hung.)



STEP 2: MOUNTING TRACK BRACKETS

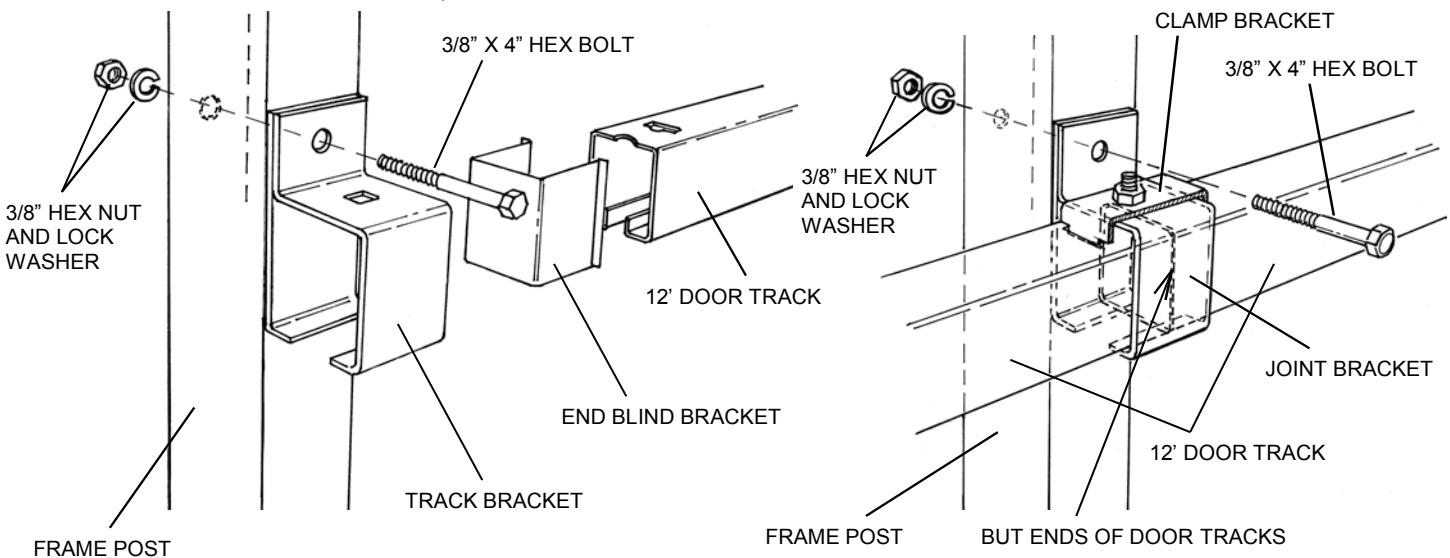
See the illustration at right to determine the track bracket type you should use at each location. You will use a Joint Bracket at the point where two 12' track ends come together. (The Joint Bracket has a clamp strap on the top with a center bolt to tighten the strap against the tracks.) All other support points will use a Track Bracket. Note: at the ends of the building (either end of the track run) you will install a End Blind Bracket to close off the ends of the Door Track. The End Blind Bracket must be inserted into the end Track Bracket before the track is installed. (See next page for bracket illustrations)



INSTALLATION OF STALL DOORS CONTINUED: INSTALLING DOOR TRACK BRACKETS:

Start at one end of the building. Install a Track Bracket to the hole you drilled in the frame post with a 3/8" x 4" Hex Bolt, Lock Washer, and Hex Nut. Insert an End Blind Bracket into the Track Bracket. Now, insert one end of a 12' Door Track. Slide another Track Bracket onto the Door Track from the open end and attach it to the next frame post. Slide a Joint Bracket on the end of the Door Track (the Clamp Bracket on the top should be loose enough to slide the bracket into place.) Insert the next Door Track into the Joint Bracket. Slide another Track Bracket onto the Door Track and Attach it to the next frame post. With the second track inserted, go back to the Joint Bracket, center the joint between the two Door Tracks and tighten the Clamp Strap to hold the door tracks in place. (note that the Clamp Bracket may have tabs that fit into slots in the Door Track (all track assemblies do not) if yours has the tabs, make sure they fit into the corresponding slots before you tighten down the Clamp straps.

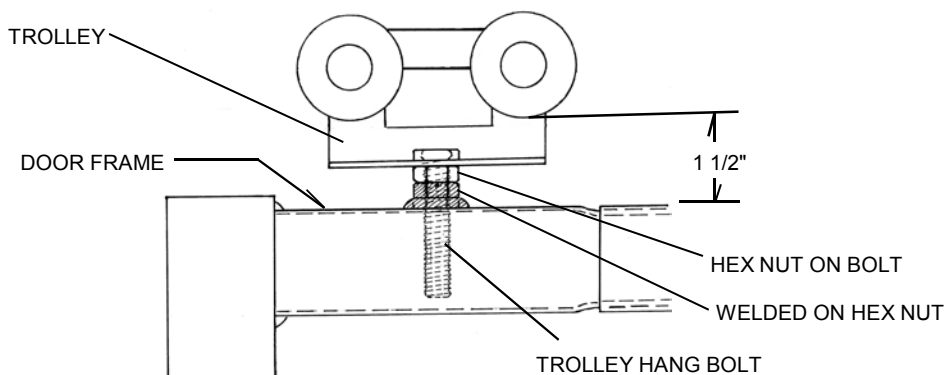
Continue down the length of the barn repeating the assembly method described above for all but the last track section. **Leave the last track section open to allow installation of the Stall Doors. When all of the Doors have been inserted into the tracks (including the door that will be hanging from the last track section) complete the installation of the last track section.** Remember to install a End Blind Bracket into the last Track Bracket before it is placed on the end of the last Door Track. (Note: the ends of the Door Tracks at the ends of the building will be only half way inserted into the end Track Brackets.)



INSTALLING DOOR TROLLEYS TO STALL DOOR:

NOTE: The trolleys that you get in your door kit may be different from the one illustrated, but the assembly will be essentially the same. The Trolley will have a 1/2" hang bolt projecting down from the center portion of the trolley assembly. This bolt will have one or 2 nuts threaded onto the bolt. Remove one of the nuts at this time. You will need only one nut to complete the assembly. You will assemble two Trolleys per Stall Door.

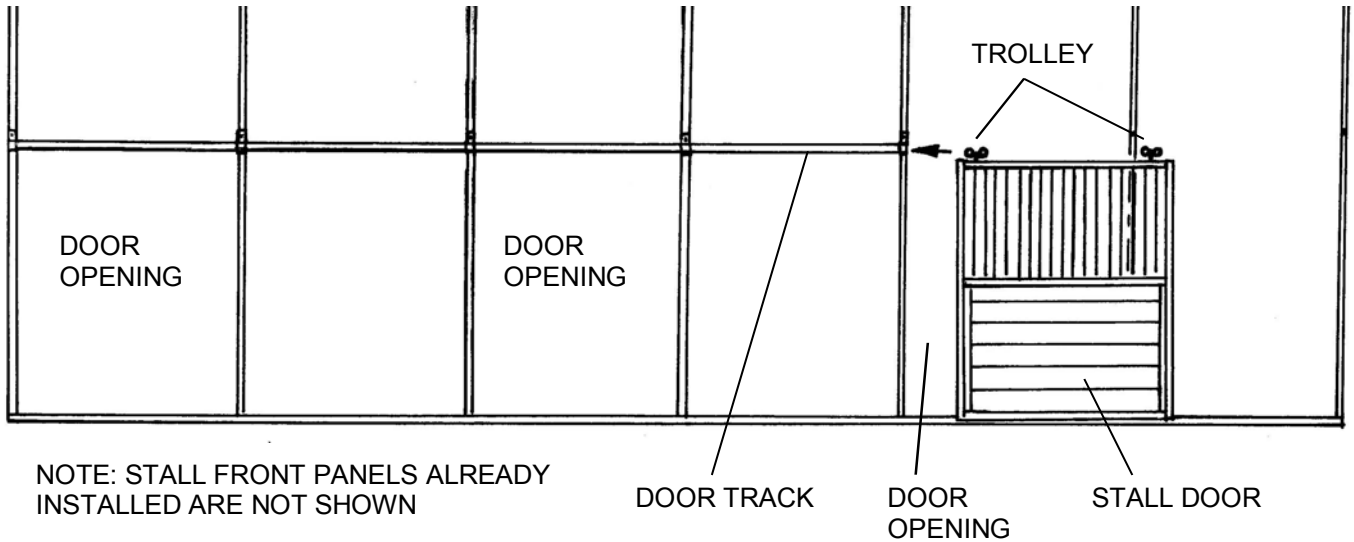
Screw the trolley hang bolt into one of the hex nuts welded on top of the Stall Door until the space between the door frame and the bottom of the trolley wheels is 1 1/2" and the trolley is in line with the door frame. Now, tighten the hex nut that was threaded onto the hanger bolt down against the hex nut on the door frame. Repeat this procedure for all of the remaining trolleys.



INSTALLATION OF STALL DOORS CONTINUED: HANGING DOORS IN TRACK

NOTE: The last track section on both sides of the center isle should still be uninstalled. This will provide a point to insert all the Stall Doors.

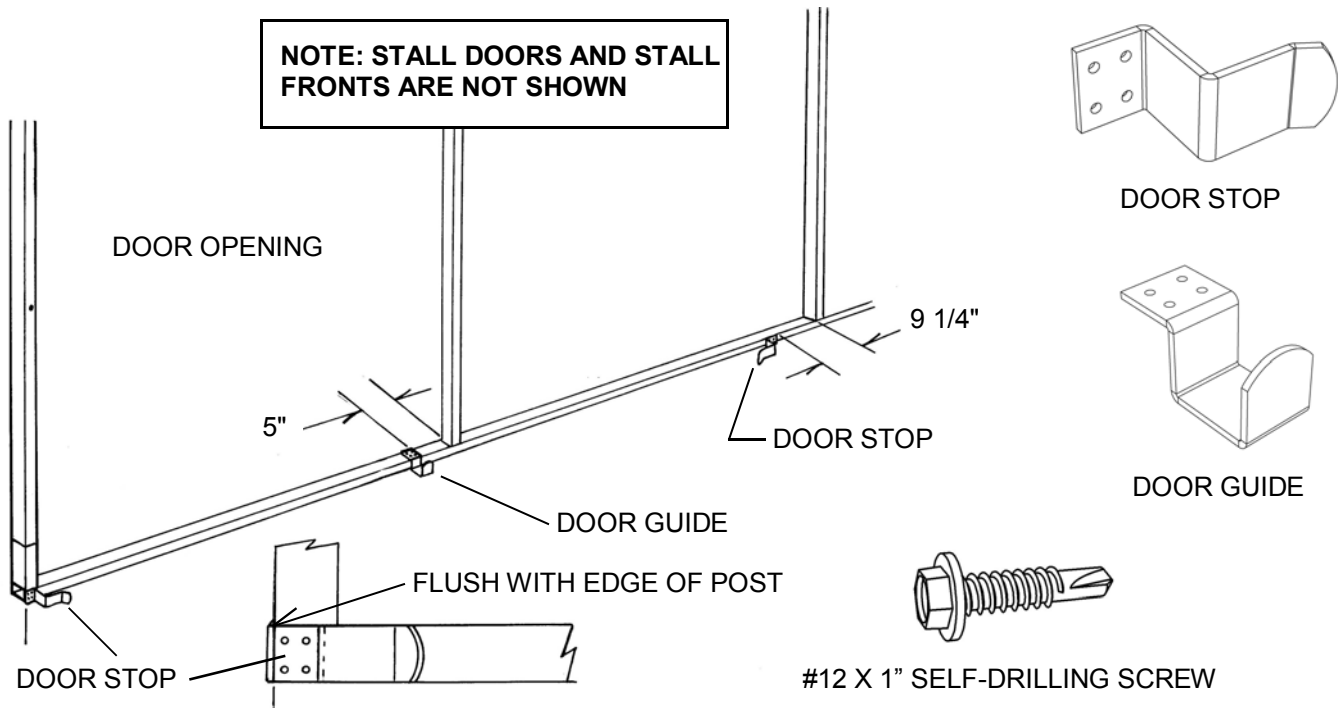
Lift the Stall Doors one by one and insert the Door trolleys into the open end of the Door Track. Roll each door down the length of the building until it is close to its final position in the stall opening. Also insert the door that will hang from the last door track section and push it to the left of the door opening. **Now, install the last Door Track section and slide the last door back into position in front of the door opening.**



INSTALLING STALL DOOR STOPS AND GUIDES

Each Stall Door will have two stops. One to stop the door in the closed position and one to stop the door travel as it is opened. Each door will also have a door guide.

Use #12 x 1" Self-Drilling screws to mount the Door Stops and the Door Guides. See the illustration for location of stops and guides.

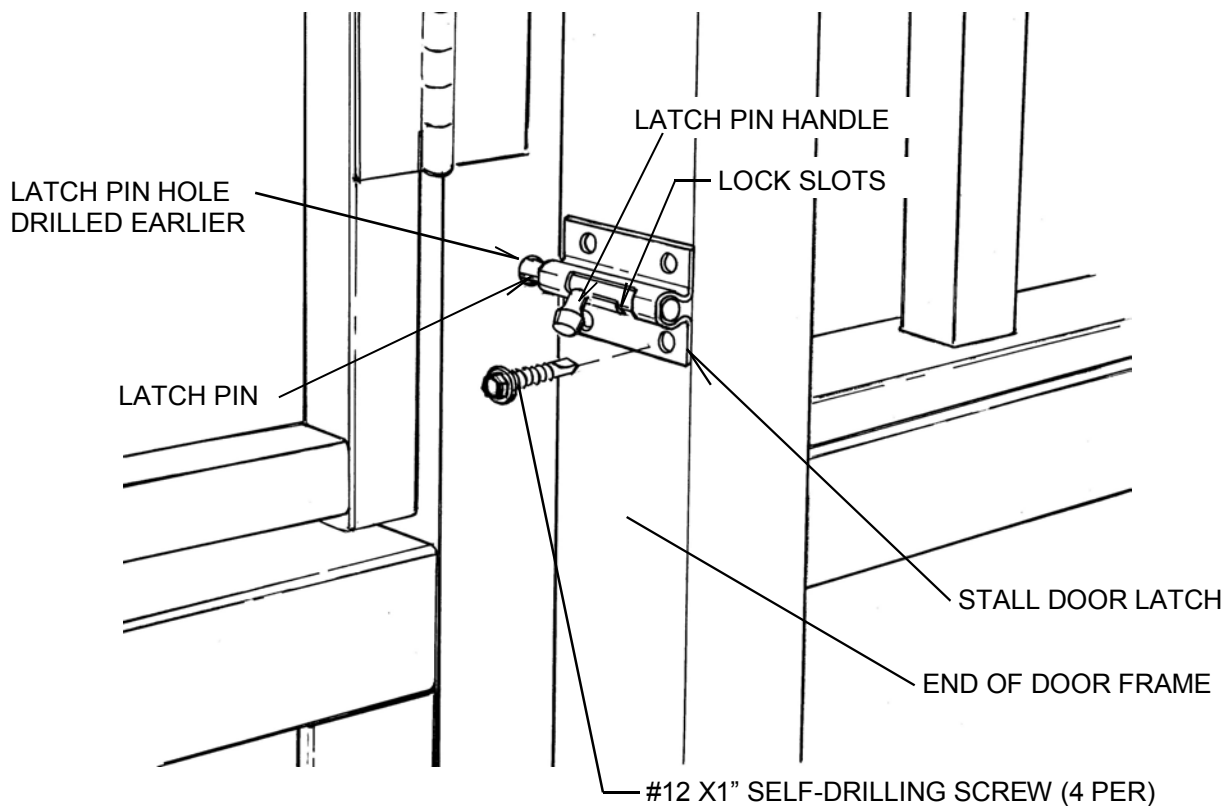


INSTALLING STALL DOOR LATCH

The Stall Door Latch is a 2 1/2" barrel type latch. The latch will be located on the end of the stall door frame.

Pull the Stall Door to the closed position and position the Door Latch on the end of the door frame with the latch pin inserted and centered in the latch pin hole that you drilled earlier. The latch must be positioned so that the pin handle will drop into the locking slots. (the slots must be on the lower side of the latch)

Fasten the latch to the door frame with #12 x 1" Self-Drilling screws. (See illustration)



INSTALLATION OF BARN DOOR TRACK AND TRACK COVER

ITEMS REQUIRED:

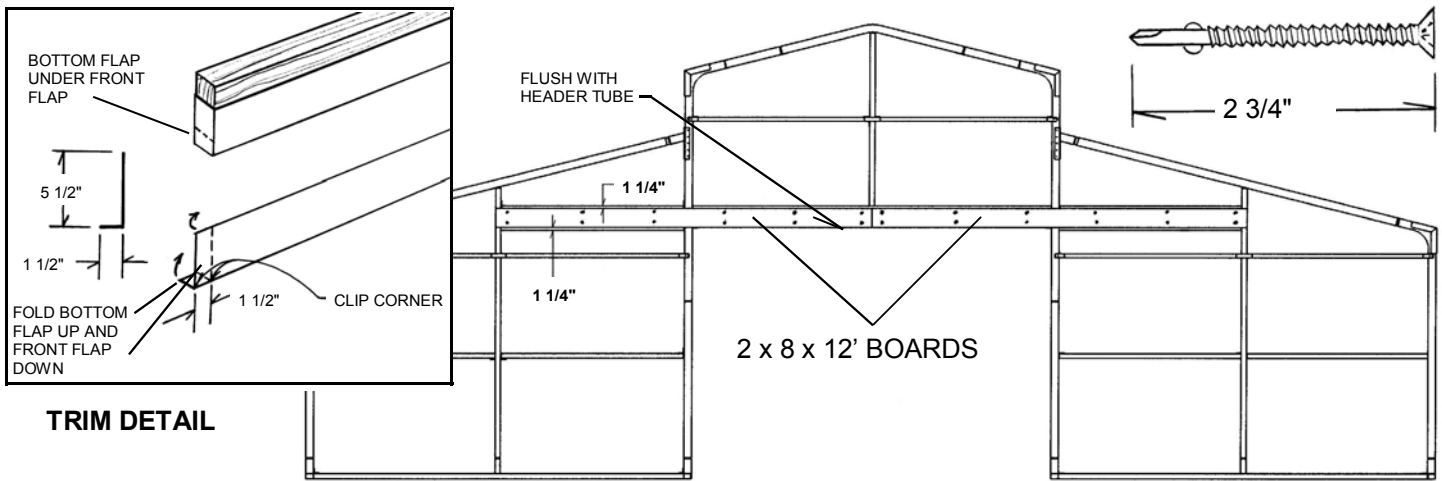
- (2) 12' Round Style Door Track with flush mount brackets
- (3) 10' lengths of Round Track Cover
- (2) 2 x 8 x 12' boards (pressure treated)
- (24)#12 x 2 3/4" Wood to Metal Self-Drilling Screws, Flat head, Phillips Drive
- (40)#10 x 3/4" Painted Stitching Screws with rubber washers
- At least 25' of Door Post Trim 1 1/2" x 5 1/2" L shaped trim

STEP 1:

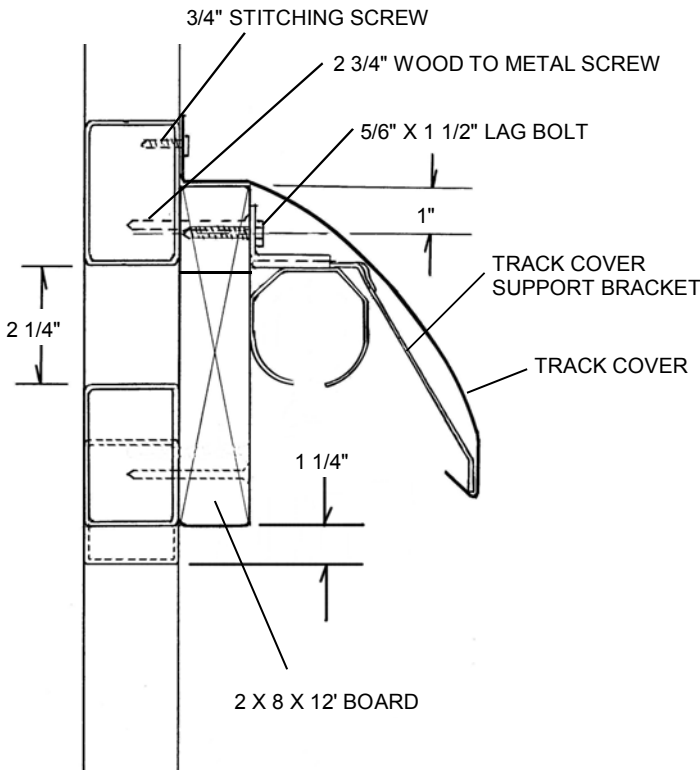
Fasten (2) 2 x 8 x 12' Boards to Header Tubes and Track Backer Tubes with #12 x 2 3/4" Wood to Metal Self-Drilling Screws. The ends of the boards should be centered in the barn door and the bottom edge of the boards should be flush with the bottom edge of the Door Header Tube and 1 1/4" above the bottom of the bottom Backer tubes.

STEP 2:

Trim out the Track Backer Boards with Door Post Trim as Shown in detail. Overlap trim as necessary. Use 3/4" stitching screws to fasten trim to Track Boards. (Trim 5 1/2" x 1 1/2" (L) shaped)



TRIM DETAIL



STEP 3:

Fasten the Door Track Bracket to the Track Board with 5/16 x 1 1/2" Lag Bolts. (pre drill pilot holes for bolts) The center of the bolt should be 1" down from the top edge of the track board.

STEP 4:

Hammer Track Cover Support Brackets into each Track Mounting Bracket. (some models will clip in).

STEP 5:

Hook the bottom edge of the Track Cover under the front edge of the Track Cover Support Bracket, bend the top portion back toward the top header tube and fasten it to the top header tube with stitching screws. (the cover should sit on top of the track board)

Do not hang the door at this time.

The end of the track will be covered after the sheet metal and doors are hung. (You can make your own or most door track suppliers have one to fit.)

INSTALLATION OF SHEET METAL AND TRIM:

PARTS LIST:

We recommend R-Panel 26 Gage for metal siding and roof. Dimensions in these instructions provide for R-Panel. You will have to adapt for other sheet metal sizes.

Side Panels, 94" long if you will be installing a bottom trim, 95" long with no bottom trim, and 96 1/2" long if your side metal will drop below the base rails into a sheeting edge in a concrete footer. (4) panels for every 12' of barn length.

Raised Center Isle short Side Panels, 21 3/4" long, (4) panels for every 12' of barn length.

Lean-to Roof Panels, 152 1/2", (4) panels for every 12' of barn length. (Note: 152 1/2" provides a 2" overhang.)

Center Isle Roof Panels, 76 1/2" long, (4) panels for every 12' of barn length. (Note: 76 1/2" provides a 2" overhang and a 2" ventilation gap at the peak.)

Back Panels: (2) 8'-10 1/2", (2) 9'-7 1/2", (2) 10'-4 1/2", (2) 11'-1 1/2", (2) 13'-10", and (2) 14'-7".

Front Panels: (2) 8'-10 1/2', (2) 9'-7 1/2", (2) 10'-4 1/2", (2) 11'-1 1/2", (2) 5'-1", and (2) 5'-10". **Door Panels:** (4) 8'

TRIM:

Note: Trim will vary from supplier to supplier. These instructions suggest one way to trim and finish the barn.

Post Trim for the Track Board, 5 1/2" x 1 1/2" (L) shaped trim. (3) 10' pieces.

Door Jamb Trim, custom bent, (See drawing detail). (2) 8' pieces.

Bottom Trim, Used under bottom edge of front, back, and side metal. (60) 12' -3" pieces plus (2) 12'-3" pieces for every 12' of barn length.

Corner Trim, Used on outside corners and on gable ends. (9) 8' pieces.

Gable Trim, (4) 14' pieces.

Eave Trim, Used on top of side metal. (4) 12'-3" pieces for every 12' of barn length.

End Wall flashing, 6" x 6" Used where lean-to roof slopes away from vertical wall. Order enough 10' pieces to go down the length of the barn twice with provision for 3" overlap at each joint.

Ridge Cap, Used to finish the peak of the roof. Order enough 10' lengths to go down the entire length of the barn with provision for 3" overlap at each joint.

Barn Door Trim listed in door assembly section.

Foam Closures: Inside Closure Strips are used under the panel and Outside Closure strips are used on top of the panel.

You will need: (24) Inside closure Strips for every 12' of barn length.

You will need: (32) Outside Closure Strips for every 12' of barn length.

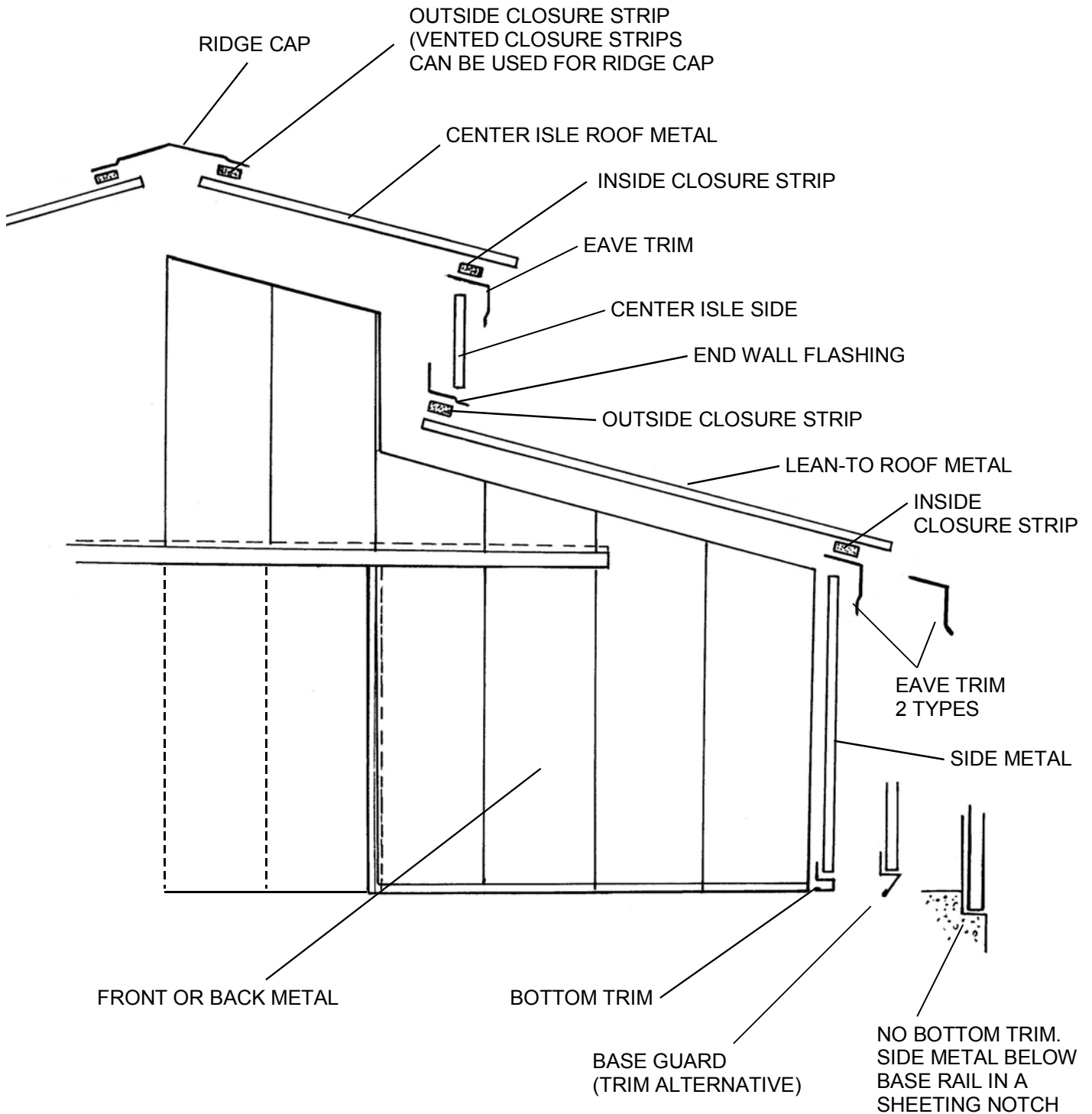
Screws:

#12 x 1" Self-Drilling Screws with rubber washers (painted side wall color) You will need (700) screws for the front and back Sheet metal and trim **plus** (576) screws for every 12' of barn length.

#14 x 3/4" Stitching Screws with rubber washers (painted) You will need (250) for the front and back of the barn **plus** (186) for every 12' of barn length.

NOTE: YOU SHOULD INSTALL ALL WINDOW TRIM AND SOME TYPES OF DOOR TRIM BEFORE HANGING SHEET METAL.

THE DRAWING BELOW IS AN END VIEW OF THE BARN . ONLY HALF OF THE BARN END IS SHOWN. THIS DRAWING SHOWS THE GENERAL LAYOUT OF ALL THE SHEET METAL AND TRIM ON THE BARN. CORNER, DOOR JAMB, AND GABLE TRIM ARE NOT SHOWN. INSTALLATION OF EACH SECTION OF SHEET METAL AND TRIM WILL FOLLOW.



NOTE: YOU SHOULD INSTALL ALL WINDOW TRIM AND SOME TYPES OF DOOR TRIM BEFORE HANGING SHEET METAL.

INSTALLING SHEET METAL SIDES AND ROOF:

SUGGESTED ORDER FOR INSTALLING SHEET METAL:

1) SIDE METAL, 2) BACK METAL, 3) FRONT METAL, 4) LEAN-TO ROOF METAL, 5) CENTER ISLE SIDE METAL, 6) CENTER ISLE ROOF METAL.

SIDE METAL:

Note: If you will be installing a bottom trim strip under the side metal the side panels should be 94" long. If you will not be installing a bottom trim the metal should be 95" long. If you will be setting the Side metal 1 1/2" below the base rail on a sheeting edge in a footer the side metal should be 96 1/2" long.

You will be installing 4 panels for every 12' section of barn length. The outside major ribs are on 36" centers.

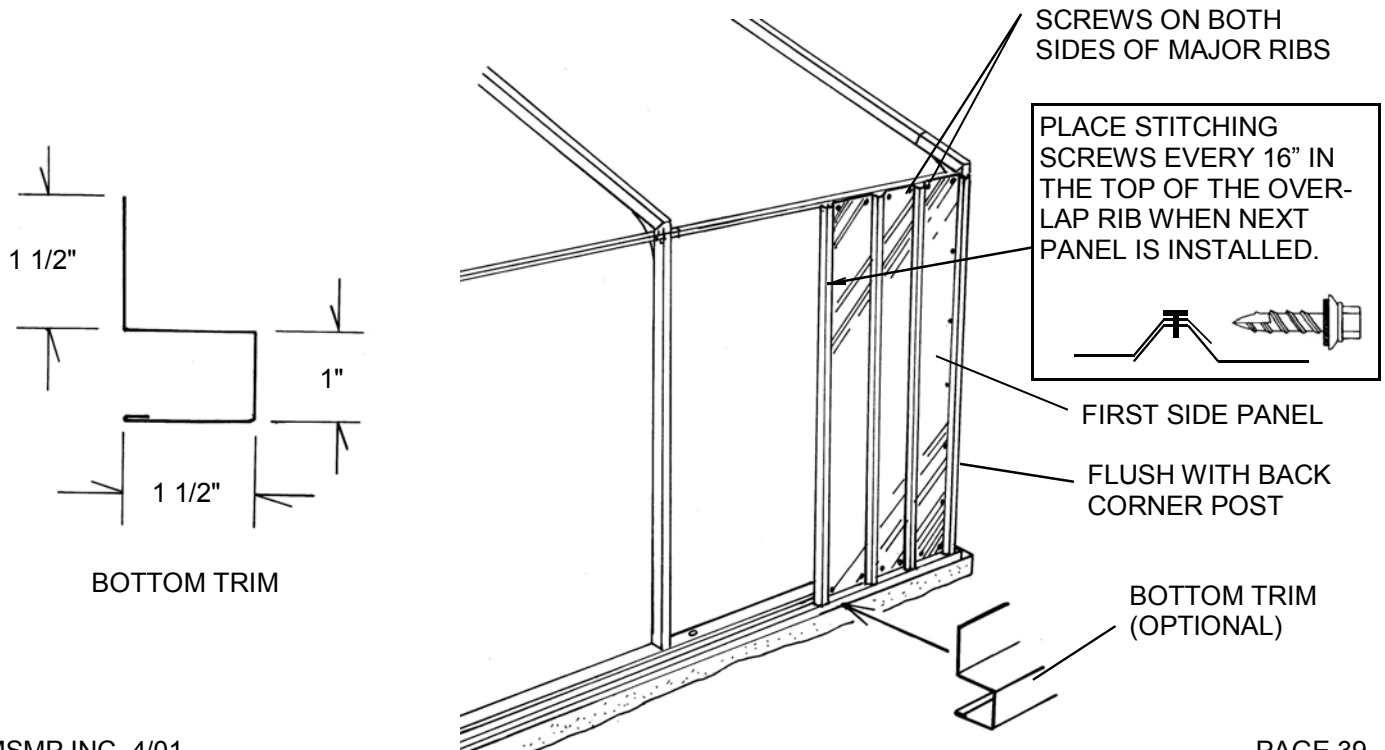
INSTALLING SIDE PANELS WITH A BOTTOM TRIM:

Start at the back of the barn and place a piece of bottom trim under the first sheet metal panel. Square the edge of the panel and the bottom trim with the corner frame post. (you may also have to adjust the barn frame if the post is not plumb.) It is important that the first sheet of metal is square.

Fasten the metal at the bottom to the base rail and at the top to the girt. Place (1) # 12 x 1" Self-Drilling Screw with Rubber washer on both sides of each major rib. You should also install several screws up the length of the corner post. Lap the edge of the next panel over the end rib of the first panel and fasten the second panel with screws at the top and bottom. Install #14 x 3/4" Stitching screws every 16" in the top of the panel overlap rib. Add Bottom Trim as you go along overlapping the trim about 2 or 3". Trim will be fastened as you install screws in the side panels.

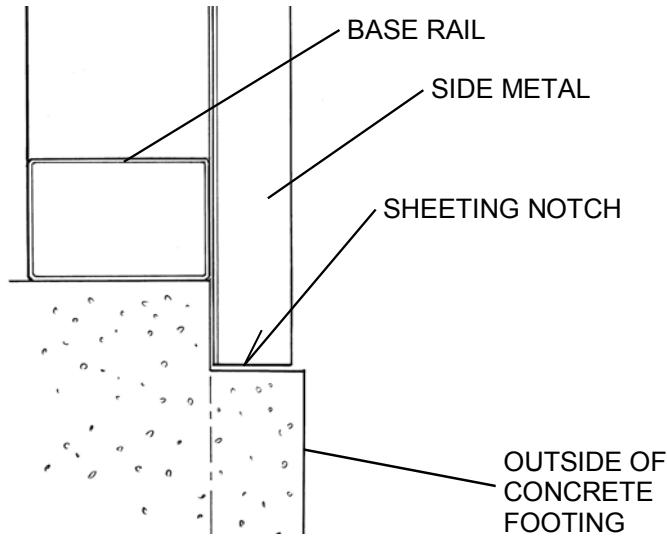
IMPORTANT: YOU SHOULD MARK YOUR FRAME EVERY 36" OR TAKE A MEASUREMENT WHEN YOU INSTALL EACH PANEL TO BE SURE THAT YOU DO NOT STRETCH OR COMPRESS THE PANELS AS YOU GO DOWN THE SIDE OF THE BARN. THE LAST PANEL INSTALLED SHOULD COME OUT EVEN WITH THE FRONT EDGE OF THE BARN FRAME. THE MAJOR RIBS ARE 36" ON CENTER.

Continue installation of side panels down the barn. The last panel should be flush with the front corner post. Repeat on other side of barn.



INSTALLATION OF SIDE METAL CONTINUED:

If you will be setting the bottom edge of the sheet metal in a sheeting notch in the concrete footing you will be using side metal 96 1/2" long. See detail below of sheeting notch.



INSTALLING BACK AND FRONT SHEET METAL:

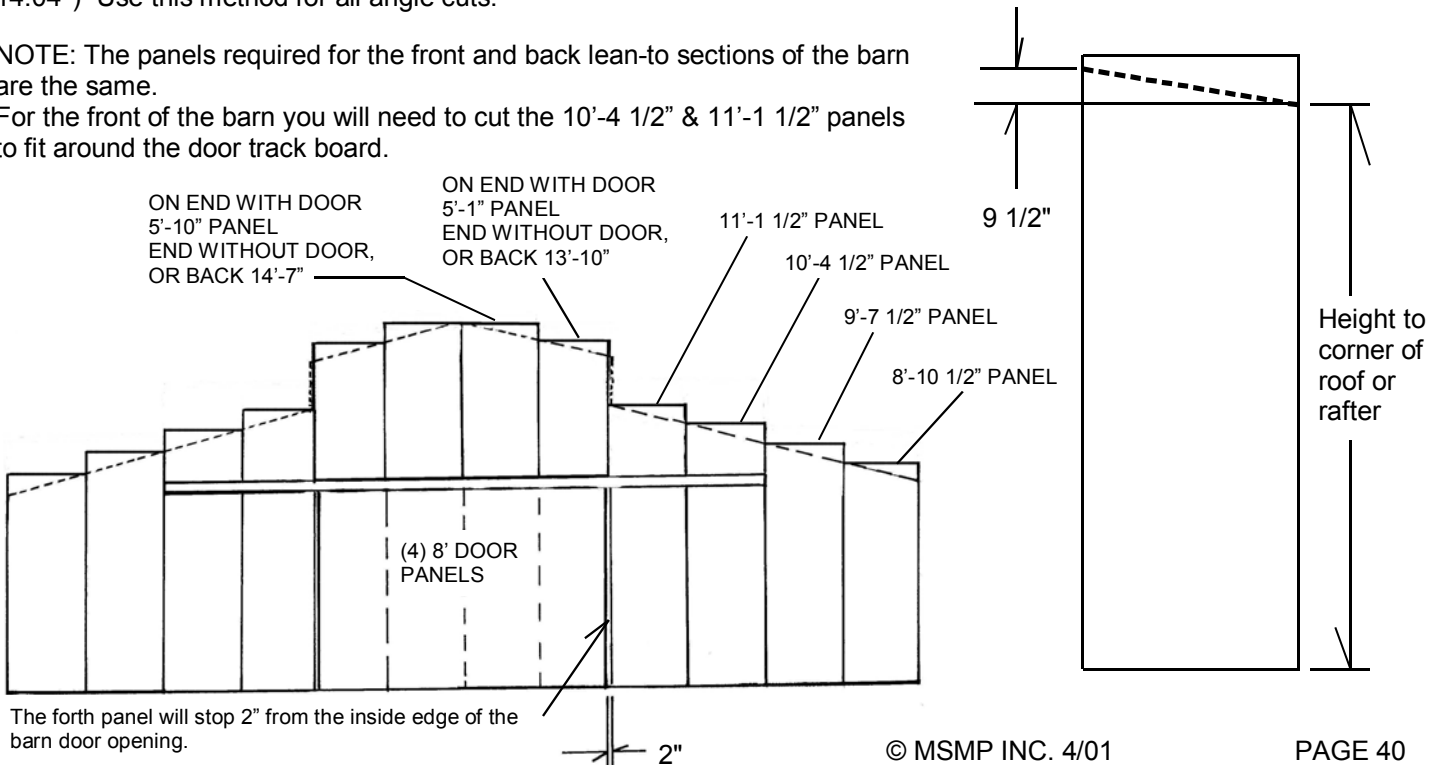
Sheet metal required for the back of the barn: (2) 8'-10 1/2", (2) 9'-7 1/2", (2) 10'-4 1/2", (2) 11'-1 1/2", (2) 13'-10", and (2) 14'-7" panels. **For the front of the barn:** (2) 8'-10 1/2", (2) 9'-7 1/2", (2) 10'-4 1/2", (2) 11'-1 1/2", (2) 5'-1", and (2) 5'-10" panels. **Door panels:** (4) 8' panels. There will be 12 panels across the barn. The roof pitch is 3-12.

CUTTING THE METAL:

Start with the panel at one end of the barn. Measure the height that you need to reach the top of the frame. Mark that dimension on the corner panel on the edge that will match up with the outside of the corner frame post. Now, measure up the other edge of the panel and put a mark 9 1/2" longer. This will give you the 3-12 pitch angle. (the actual angle is 14.04°) Use this method for all angle cuts.

NOTE: The panels required for the front and back lean-to sections of the barn are the same.

For the front of the barn you will need to cut the 10'-4 1/2" & 11'-1 1/2" panels to fit around the door track board.



The forth panel will stop 2" from the inside edge of the barn door opening.

2"

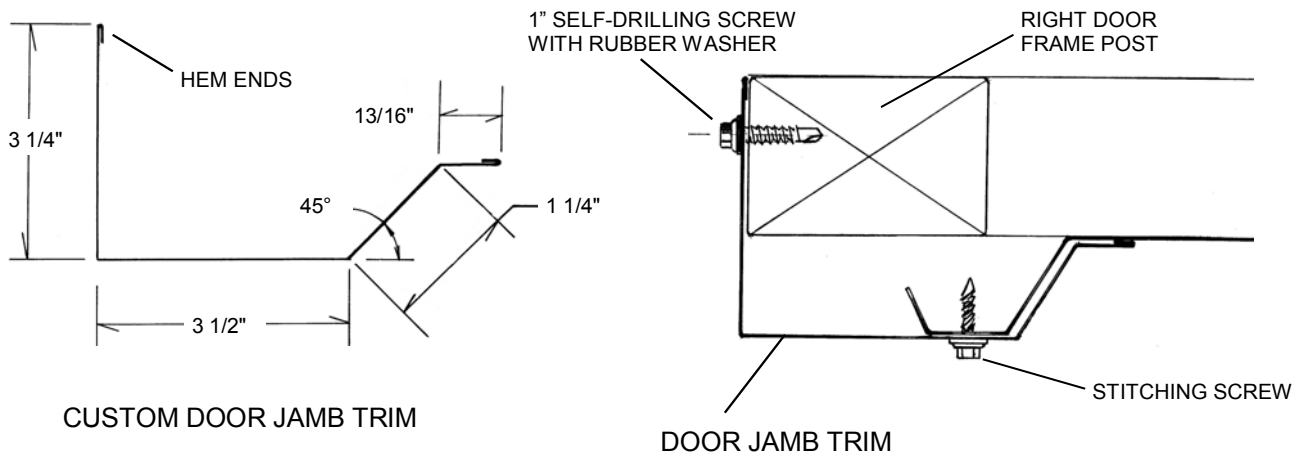
INSTALLING THE BARN DOOR JAMB TRIM:

Barn Door Jamb Trim

We are recommending custom bent door jamb trim. See drawing below for trim dimensions.

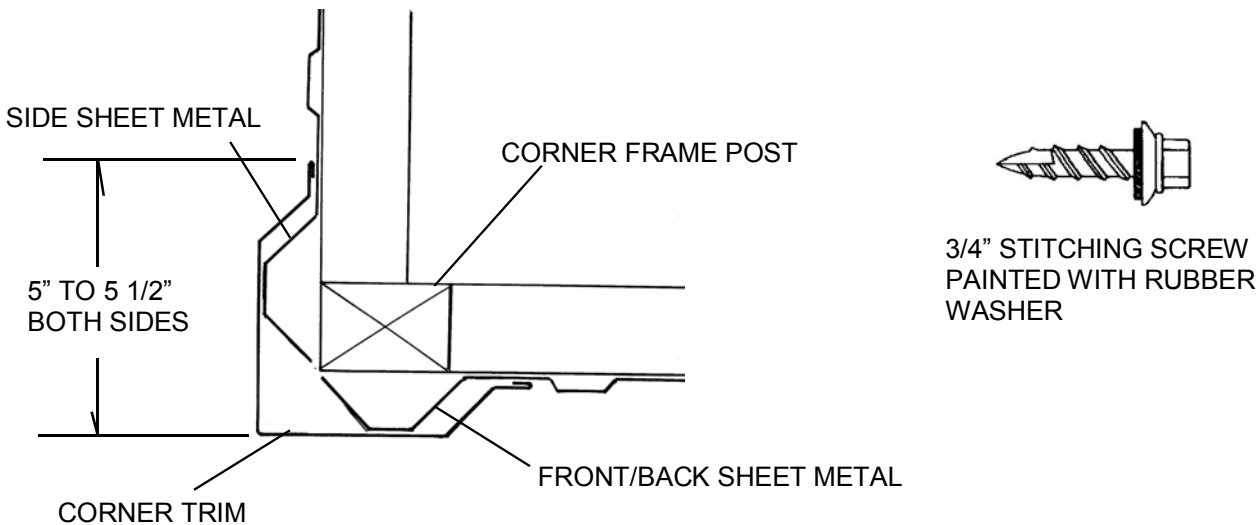
Install an 8' piece of Door Jamb Trim on each barn door post as shown with #12 x 1" Self-drilling screws with Rubber washers.

NOTE: There are many ways to trim out the door jamb. This is only one suggestion. Note that if you start the R-Panel metal at the outside corner of the barn and do not stretch the panels, the edge of the fourth panel in will and up 2" short of the inside edge of the door frame.



INSTALLING CORNER TRIM:

Cut a piece of corner trim the same height as your side steel. Place the trim over the corner of the building and attach it to the front /back and side metal with #10 x 3/4" painted Stitching Screws with rubber washers.



INSTALLING ROOF METAL, EAVE TRIM AND FOAM CLOSURE STRIPS:

STEP 1:

Place first piece of roof metal on the lean-to roof at the front or back corner of the barn. Carefully square the first panel with the front or back roof frame. Let the roof metal extend 2" beyond the side metal. Now, fasten the roof metal to the Purlins with #12 x 1" Painted, Self-Drilling Screws with rubber washers. Place 1 screw on both sides of each major rib.

Do Not place any screws in the lower purlin at this time. You will come back and install eave trim and closure strips after the roof metal is installed.

Continue to check the 2" overhang dimension as you go down the building. (NOTE: It may be helpful to clamp a board to the other end of the building and run a mason line down the length of the building to use as a guide for starting you metal panels.)

NOTE: when installing the roof panels, it is easy to stretch the panels. Be careful not to stretch the roof panels as you go down the building. Check the center to center dimension of the outside major ribs as you install them. The dimension should be 36".

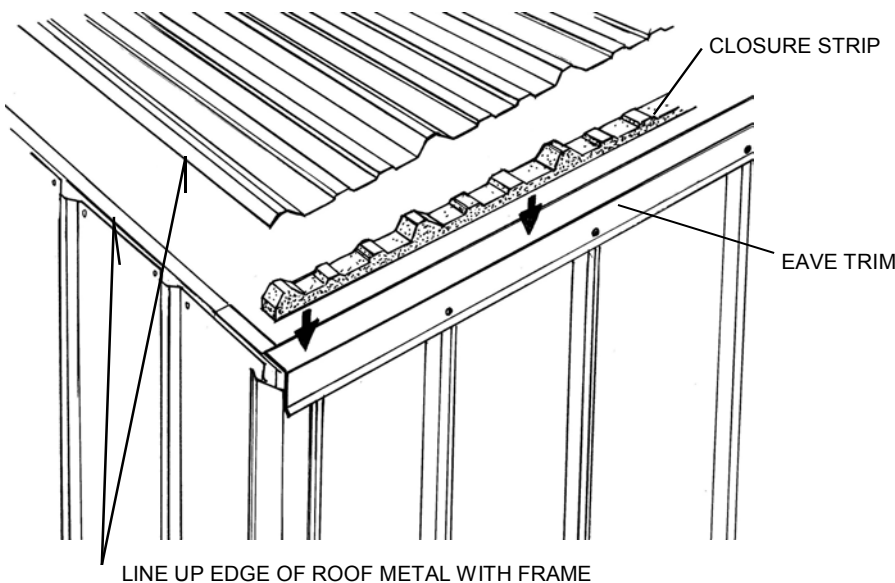
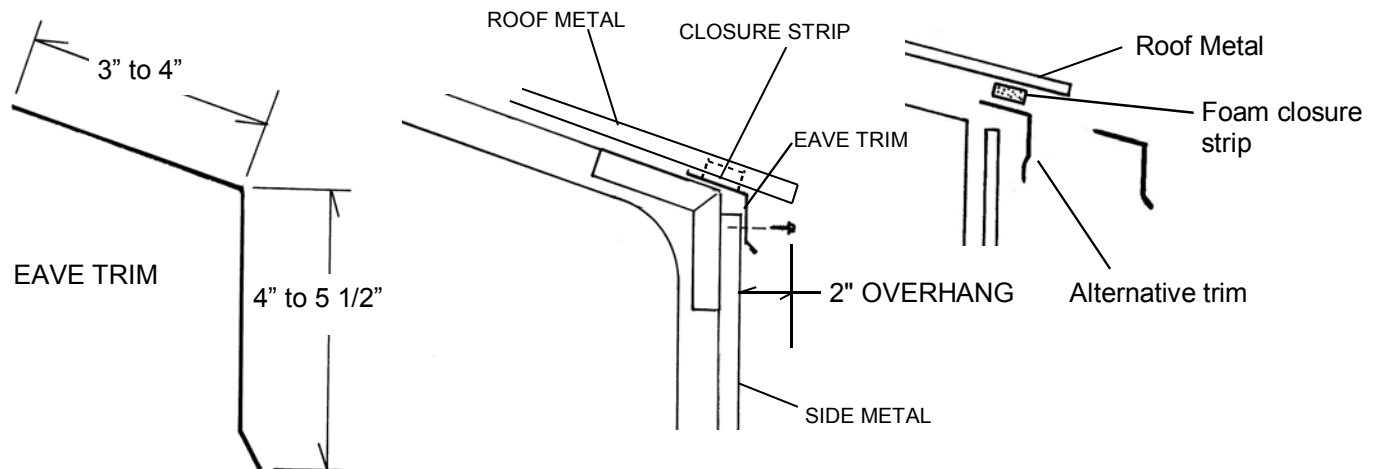
STEP 2:

Installing the Eave Trim and Foam Closure Strips.

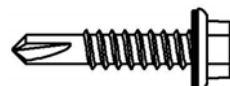
Starting at one end of the building, slide the upper edge of a piece of Eave Trim under the bottom edge of the roof metal. Insert Outside Foam Closure Strips between the Eave Trim and the Roof Metal. (Make sure that the Closure Strip contours match the Roof Metal contours. Now, push the Eave Trim up until the foam fills the roof metal gaps and fasten the Eave trim to the side metal with #10 x 3/4" Stitching Screws through the top of each major rib. Lap the next piece of Eave Trim 3" over the previous piece and continue to insert Closure Strips.

(If you had already installed the lower roof metal screws, you must remove them to install the Eave Trim.)

When the eave trim and closure strips are all in place install the bottom screws in the roof panels. These screws should also catch the eave trim.



3/4" STITCHING SCREW
PAINTED WITH RUBBER
WASHER
Use when attaching trim to
sheet metal.



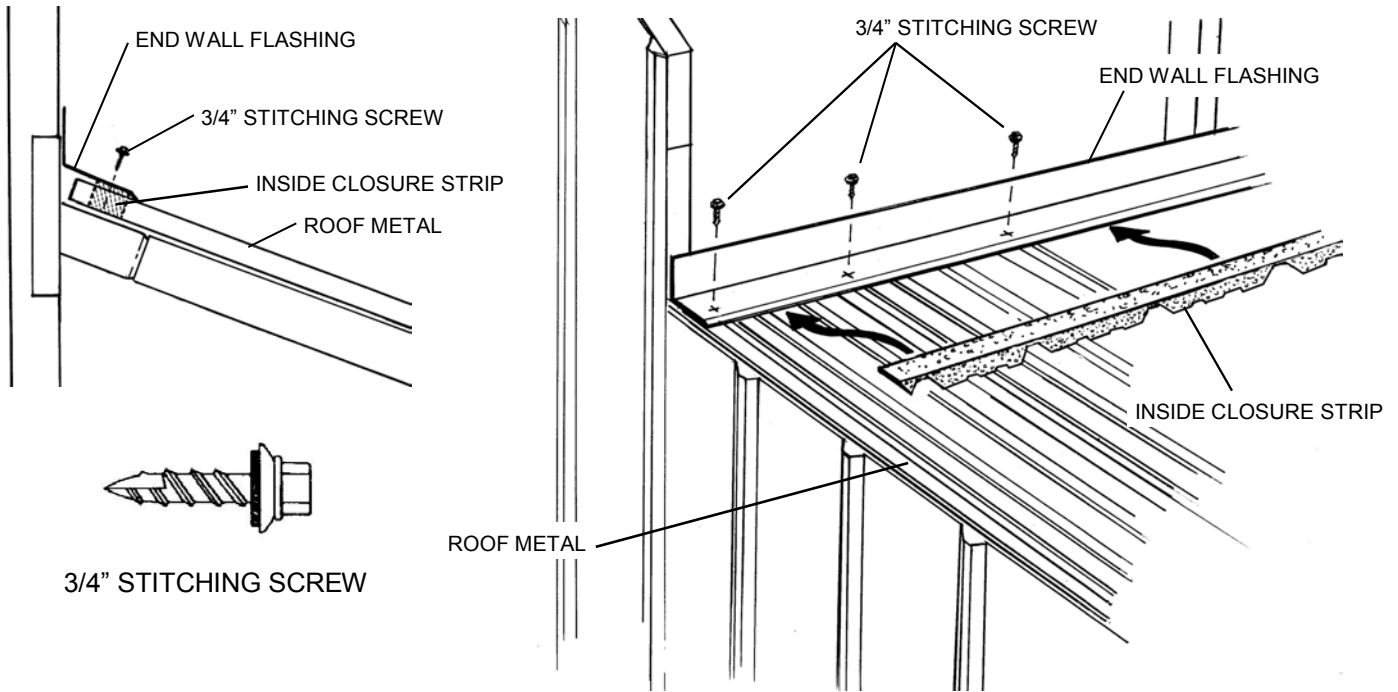
1" SELF-DRILLING SCREW
PAINTED WITH RUBBER
WASHER
Use when attaching trim or
metal panels to frame.

INSTALLING END WALL FLASHING:

Starting at one end of the barn at the top of the lean-to roof metal, place a piece of End Wall Flashing on top of the lean-to roof metal. Slide Inside Foam Closure Strips under the edge of the End Wall Flashing and fasten the flashing to lean-to roof metal with 3/4" Stitching Screws in the center of each major rib.

Slide the next piece of End Wall Flashing 3" under the proceeding piece before installing the last screw in each piece of Flashing.

Continue down the entire length of the barn repeating this assembly. Trim the last piece of flashing to length as needed. Repeat this assembly on the other side of the barn.



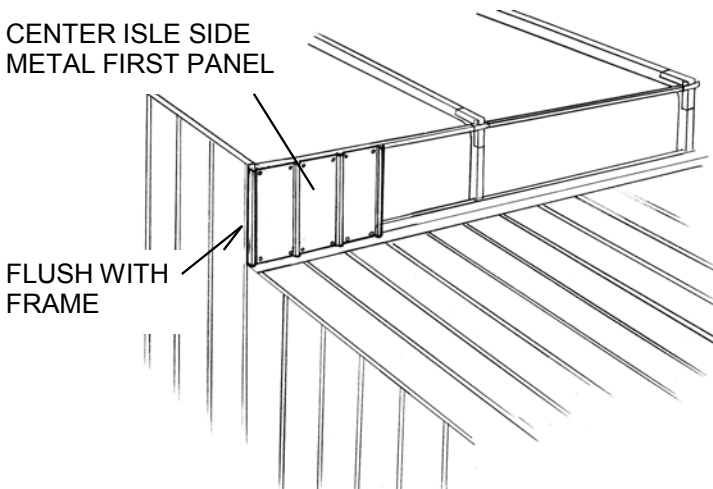
INSTALLATION OF CENTER ISLE SIDE METAL:

The center isle short side panels are 21 3/4" long. You will need (4) panels for every 12' section.

Starting at one end of the barn, place a short side panel flush with the frame at the end of the barn frame. The bottom of the panel should rest on top of the End Wall Flashing that you just installed. Fasten the panel to the center isle girts at the top and bottom of the panel with #12 x 1" painted, Self-drilling Screws with rubber washers. Place the screws on both sides of each major rib.

Lap the end rib of the next short side panel over the end rib of the first panel and fasten it in the same manner. Repeat this procedure down the length of the barn and on the other side of the barn.

CENTER ISLE SIDE METAL FIRST PANEL

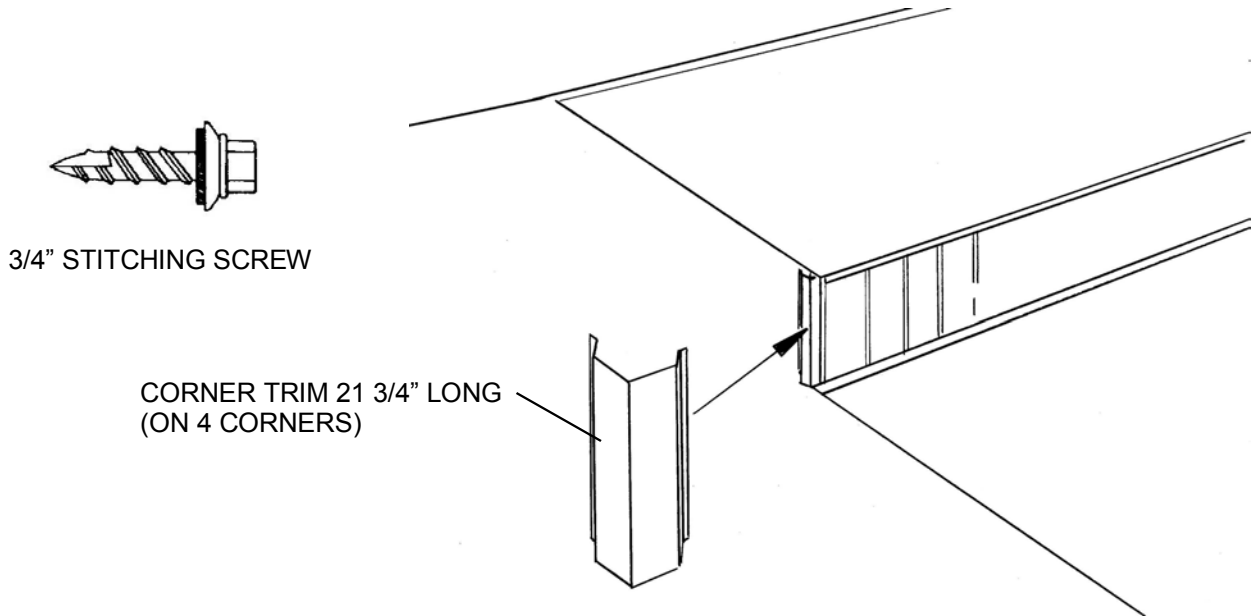


1" SELF-DRILLING SCREW WITH RUBBER WASHER

INSTALLATION OF CENTER ISLE CORNER TRIM:

The Corner Trim used on the center isle corners is the same trim that you installed on the lean-to corners below.

Cut (4) pieces of trim 21 3/4" long and install them on the four corners of the raised center isle of the barn. Use 3/4" Stitching Screws with rubber washers.



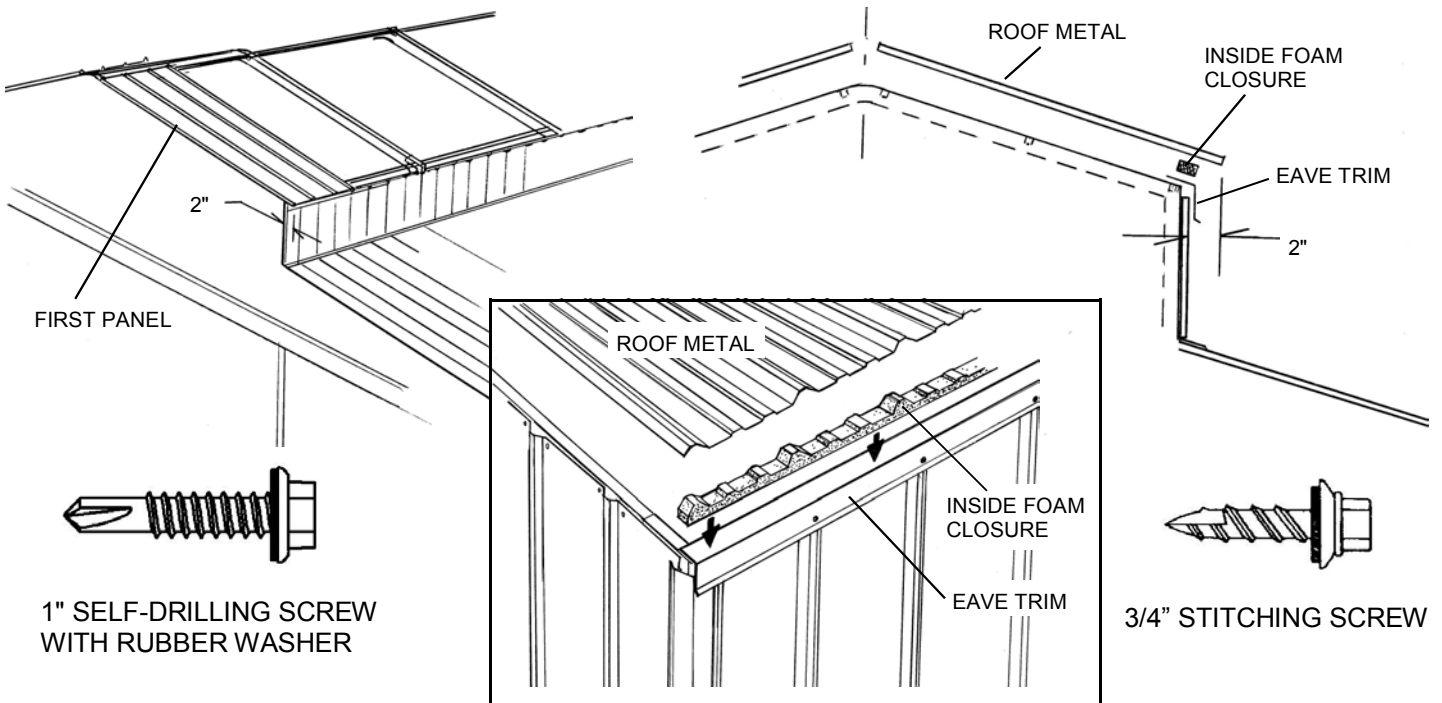
INSTALLATION OF CENTER ISLE ROOF METAL, EAVE TRIM AND CLOSURE STRIPS:

The center isle roof metal is 76 1/2" long. There will be 4 panels for every 12' long section.

Install the center isle roof steel as you did the lean-to roof steel with a 2" overhang on the side of the roof.

Remember to leave the bottom screws out until you have installed the Eave Trim and Inside Closure Strips.

Use the same Eave Trim and Closure Strips that you installed on the lean-to roof.



INSTALLATION OF GABLE RAKE TRIM:

Measure and cut 4 pieces of Gable Rake Trim to reach from the bottom edge of the lean-to roof to the inside edge of the center isle corner trim.

Notch the upper end of the Gable Rake Trim to fit under the End Wall Flashing and flush with the outside of the Corner Trim as shown.

NOTE: there are many types and shapes of gable trim. The one shown may be different from yours.

Now, measure and cut (4) pieces of Gable Rake Trim to fit the center isle roof section. The trim will run from the bottom edge of the roof metal until the lower corners of the trim touch. Cut the ends square.

INSTALLING THE TRIM: Slide the notched end of the trim that you cut for the lean-to roof gable under the End Wall Flashing at the top of the lean-to roof. (If you have installed a screw that prevents you from sliding the Gable Rake Trim under the flashing, You should remove the screw and reinstall it when the trim has been inserted.)
the trim to the tops of the major wall and roof ribs with 3/4" Stitching Screws.

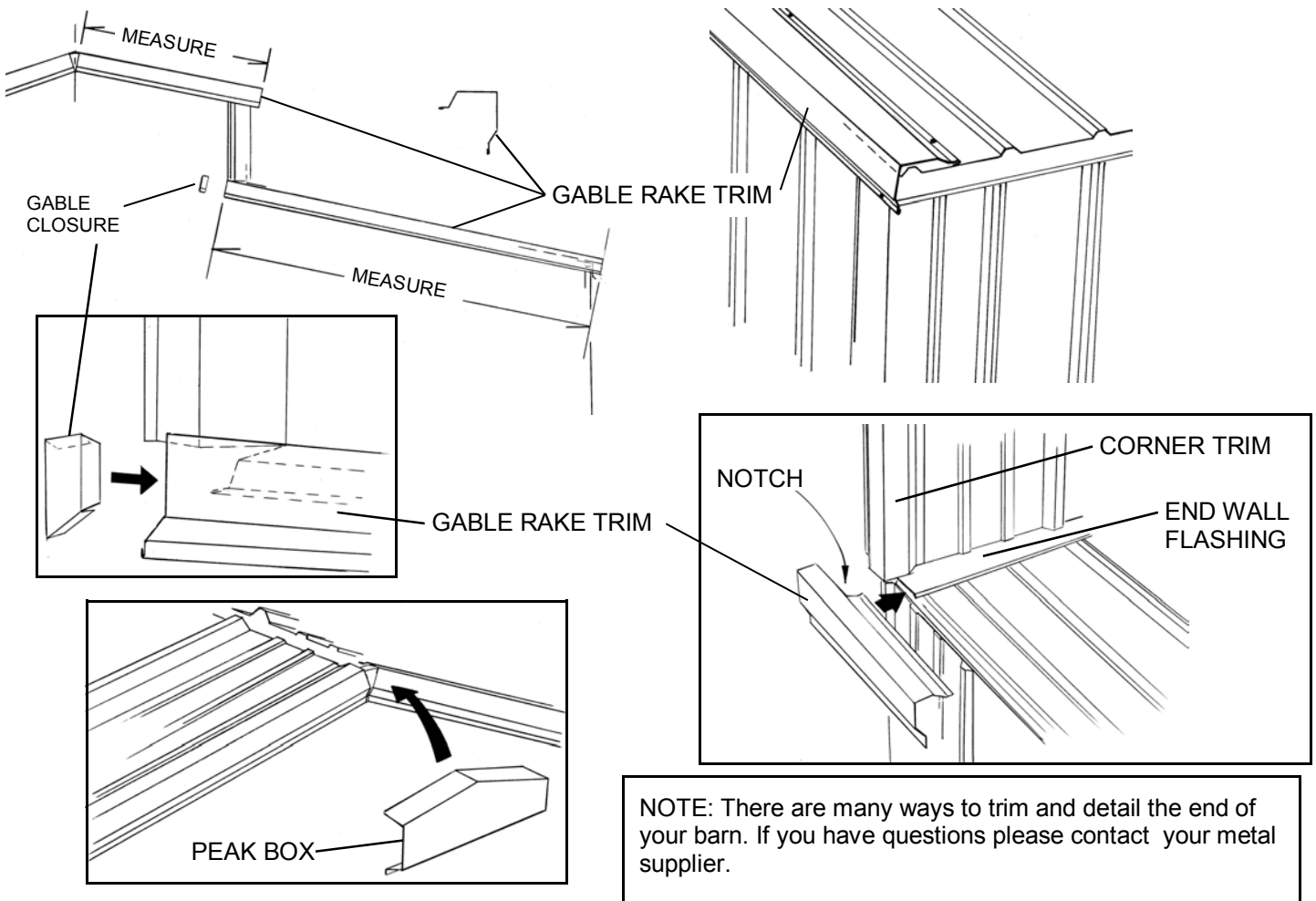
You will need to install a Gable Closure piece in the upper end of the Gable Rake Trim. This piece may be provided by your metal supplier or you may have to fabricate your one piece for this operation.

Slide the Gable Closure into the ends of the lean-to roof Gable Rake Trim and fasten with 3/4" Stitching Screws.

Line up the center isle Gable Rake Trim with the bottom edge of the center isle roof and fasten it with 3/4" Stitching Screws into the top of the major ribs in the roof or wall. NOTE: The bottom corners of the trim should come close to touching at the peak of the building.

INSTALLING THE PEAK BOX: There will be a box at the peak at both ends of the barn.

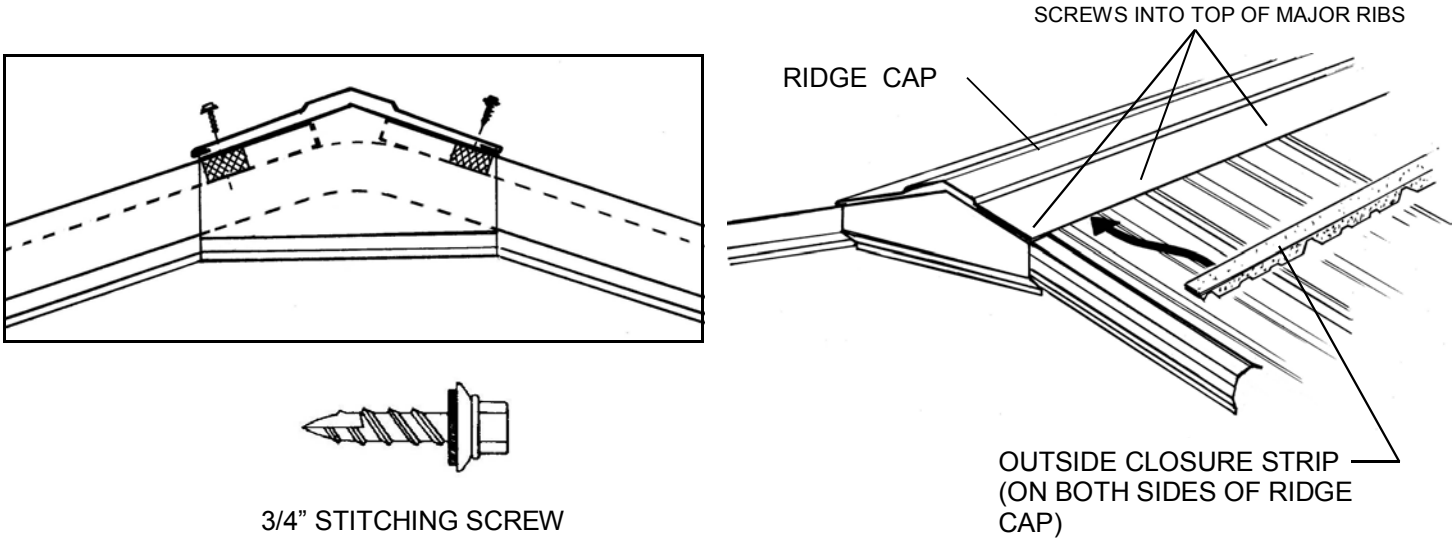
Place the Peak Boxes on the peaks at the gable ends of the barn and fasten them with 3/4" Stitching Screws.



INSTALLATION OF THE RIDGE CAP: RIDGE CAP COMES IN 10' LENGTHS.

OUTSIDE FOAM CLOSURE STRIPS WILL BE INSTALLED UNDER BOTH SIDES OF THE RIDGE CAP.

Starting at one end of the roof place a piece of Ridge Cap on the peak of the roof, flush with the end of the building. Install Outside Closure strips under the edges of the Ridge Cap and fasten the Ridge Cap to the tops of the major roof metal ribs with 3/4" Stitching Screws. NOTE: The next length of Ridge Cap should overlap the previous length about 3". Do not install the screws in the joint until the next piece is in place. Continue this assembly down the entire length of the barn. Trim the last piece to be flush with the other end of the barn.



ASSEMBLY OF THE BARN DOOR FRAMES: These assembly instructions show the assembly of the Versatube 6' x 8' barn door frame. The Sheet metal application is one way to cover the door. Your metal supplier may chose to cover and trim the doors in a different manner.

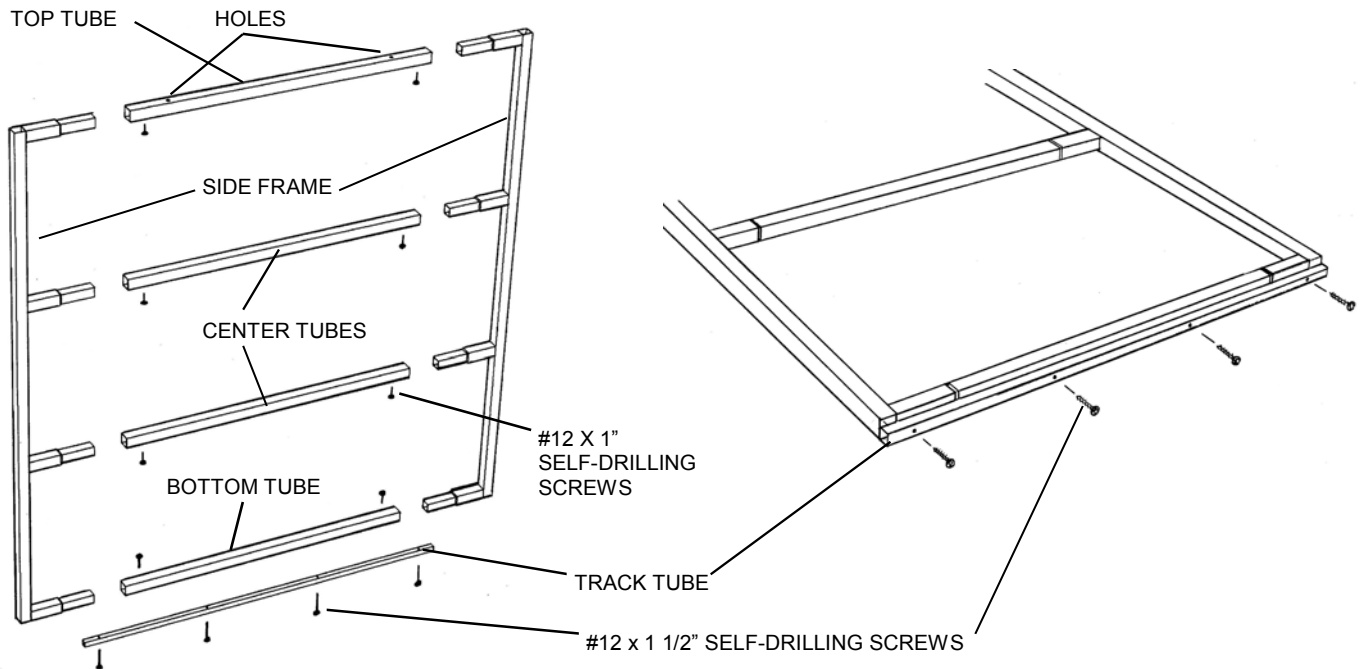
PARTS: Horse Barn Door Frame 2 frames (part no. HBD-268)

- (4) Side Frames, 2 x 2 x 95" long with 4 welded on pins
- (2) Top Frame Tube, 2 x 2 x 56" long with two holes
- (6) Horizontal Frame Tubes, 2 x 2 x 56"
- (2) Bag of #12 x 1" Hex Head, Self-Drilling Screws (40 per bag)
- (8) #12 x 1 1/2" Hex Head, Self-Drilling Screws
- (2) Barn Door Track Tube, 1" x 1" x 71 3/4" long with 4 holes.
- (4) trolleys
- (1) Left Door Guide
- (1) Right Door Guide

DOOR FRAME ASSEMBLY:

Join the door frame components as illustrated below and fasten with #12 x 1" self-drilling screws (1 screw per joint). The Top Tube and the two center horizontal tubes should have the screw on the under side of the tube joint. The bottom tube should have the screw on the top side of the tube. **Note: The top tube has 2 holes which should be vertical. These are the mounting holes for the trolleys.**

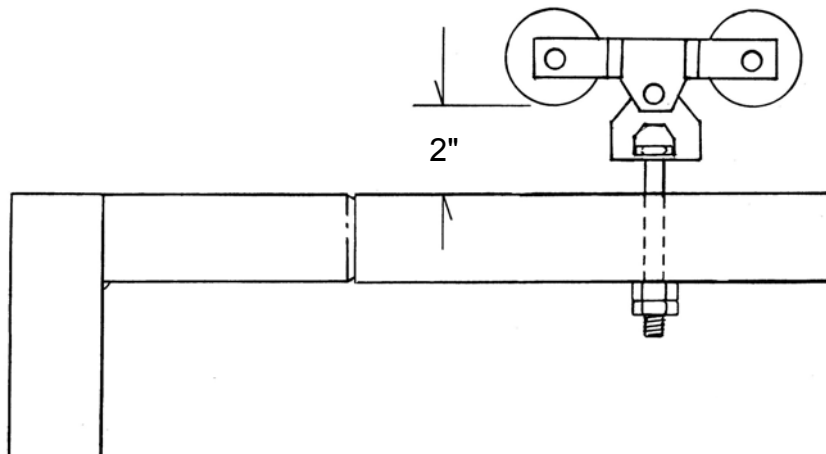
Now attach the track tube on the bottom of the frame with (4) #12 x 1 1/2" Self-Drilling screws. See detail. Note: the side of the door frame that is flush with the track tube will be the inside of the door.



INSTALLING TROLLEYS:

Remove both nuts from the trolley bolts if they are on the bolts.

Insert the trolley bolt through the holes in the top tube on each barn door frame. Screw one nut on to the bolt until the distance from the top of the frame to the bottom of the trolley wheels is 2". Now, Screw the second nut on the trolley bolt a snug it up to the first nut. Repeat this assembly for all 4 trolleys.



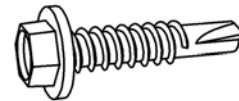
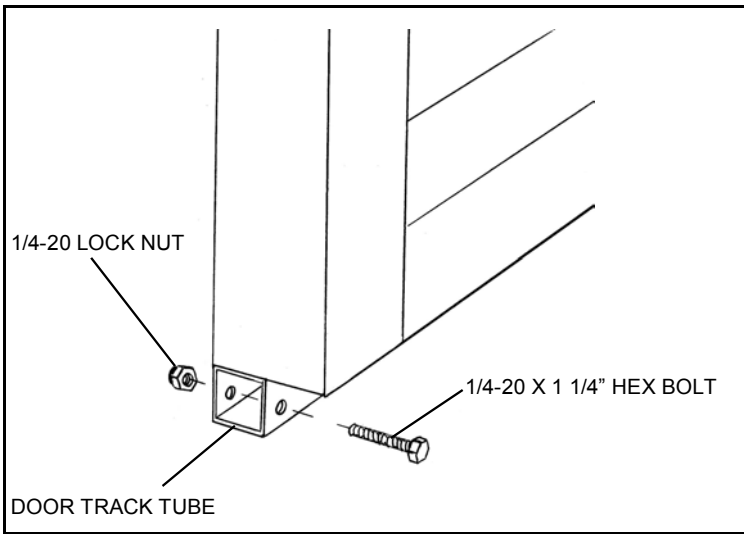
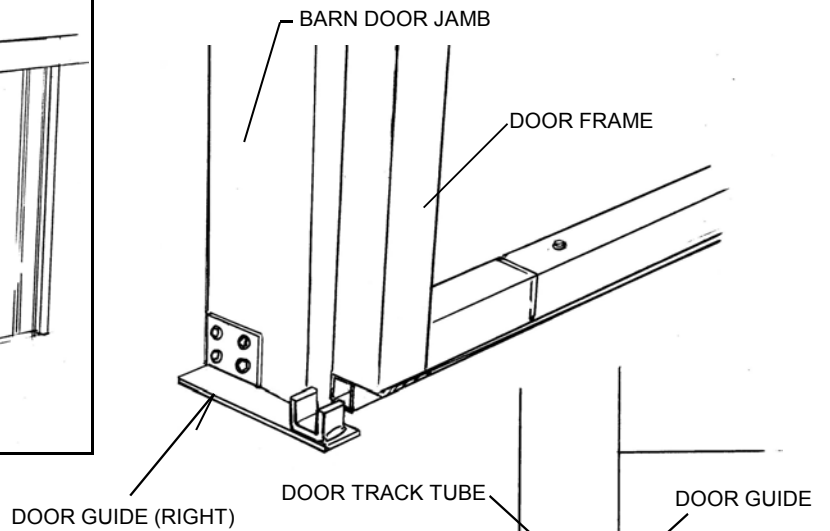
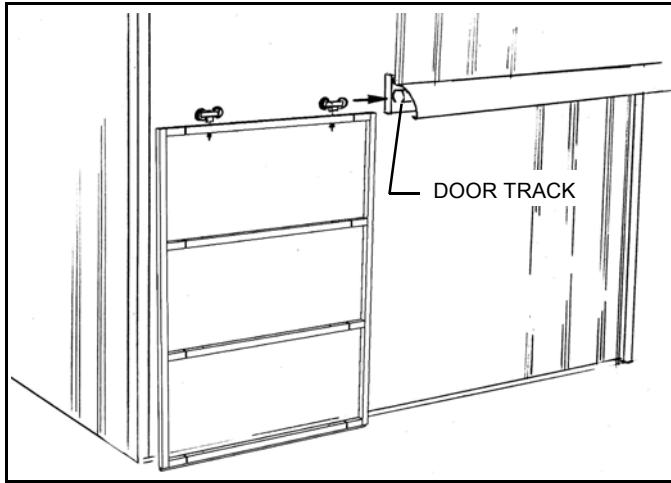
HANGING THE BARN DOOR FRAMES:

Lift the doors and slide the door trolleys into the door track on the barn.

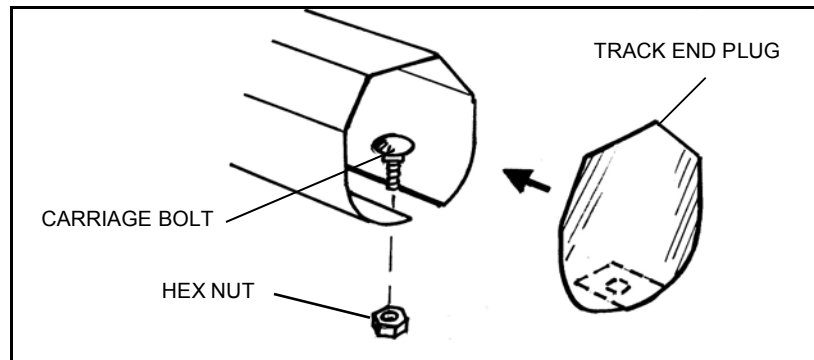
The Ends of the Door Track can be covered with a Track End Plug. See Detail below.

If you are provided the Versatube left and right Door Guides, line the guides up with the track tube on the bottom of the door in the "U" shaped section of the door guide. Adjust the guide in or out until the door hangs plum and fasten the Door Guide to the barn door Jamb with #12 x 1" self-drilling screws.

You can create a stop by drilling a 1/4" hole 3/8" up and 3/8" in from the bottom corner of the guide tube on the bottom of the door. Insert a 1/4-20 x 1 1/4" hex bolt through the hole and put a 1/4-20 lock nut on the other side.



#12 X 1" SELF-DRILLING SCREW



INSTALLING SHEET METAL AND TRIM ON BARN DOORS:

STEP 1: CUTTING AND FASTENING SHEET METAL TO THE DOOR

Using the sheet metal left over from the 14' sheets that you cut to cover the front of the barn over the door. Cut 4 panels 95" long.

You will start the assembly of the metal on the door frame at the outside edge of the door. (That is the edges nearest the sides of the barn. The right side for the right door and the left side for the left door.

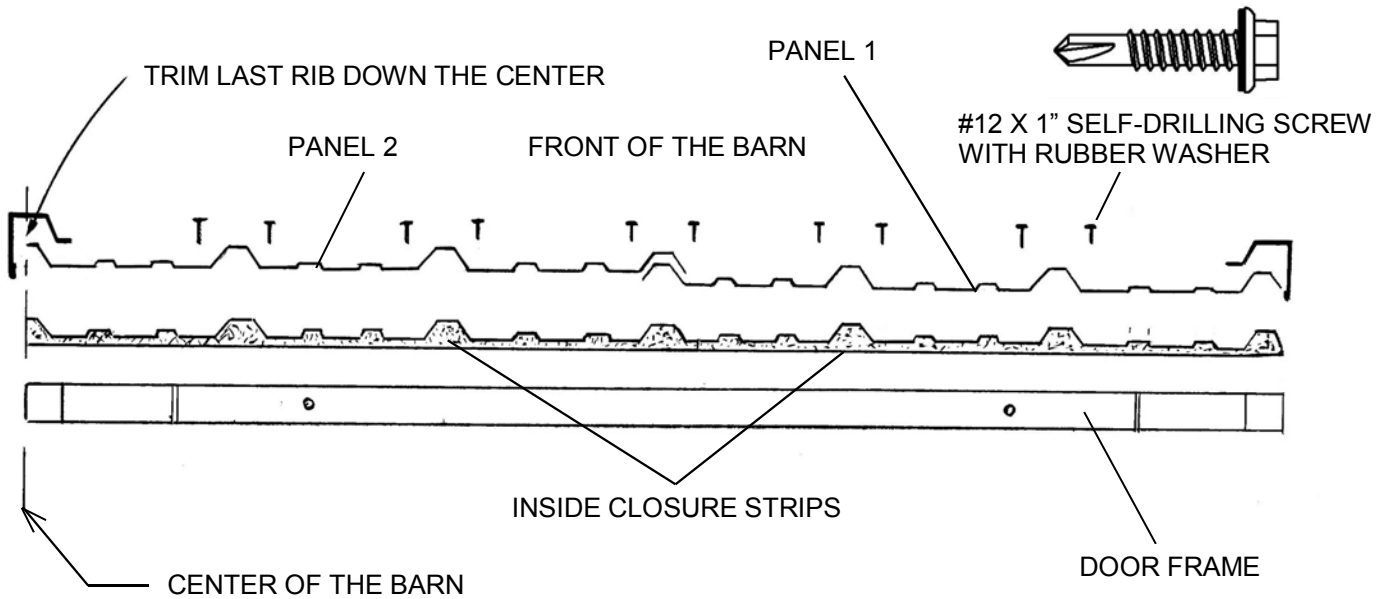
Fasten the first panel to the door frame with the edge of the panel flush with the outside edge of the door frame. Use #12 x 1" self-drilling screws with rubber washers. Place an inside closure strip under each panel at the top and bottom of the door.

Now, Trim the next panel down the center of the last major rib. This will make the panel fit the door frame and all ribs should line up with the ribs of the barn above the door.

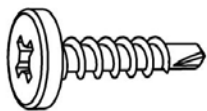
STEP 2: CUTTING AND ATTACHING DOOR SIDE TRIM.

We recommend a custom piece of trim for the barn doors. You will find a drawing of the trim profile below.

Cut 4 pieces of the custom trim for the sides of the doors. Fasten the trim to the door with flat head (pan head screws) on



TOP VIEW OF DOOR. THE LEFT DOOR AS YOU LOOK AT THE BARN IS SHOWN



#10 PAN HEAD SCREW



3/4" STITCHING SCREW

