midmark® | MASON

Installation Instructions for FRP Cat runs

Introduction

Thank you very much for your investment in Mason kennels. At Mason we take great pride in providing our customers with the highest quality animal enclosures combined with an enjoyable ordering experience. The following instructions will assist you with proper assembly, cleaning, and maintenance of your Mason kennels. It is important to follow these guidelines in order to receive the best results and maximum life from your investment.

Assembly

The following pages will show you how to assemble your new Mason kennel. Since every order is custom built to your specifications, the instructions are designed to show the various methods used to assemble our kennels and some of the demonstrations may not apply to your order. Be sure to use the enclosed scale drawings at the end of this document of the provided hardware to ensure proper identification and usage.

Hardware

Depending on your Kennel project you may have some or all of the following hardware:

Part#	Description	Part#	Description
2222	#10-32 x 5/8" TEK screw(s)	1799	Square Single clamp(s) (w/Stainless Steel Gate option)
356	5/16" x 1-1/2" carriage holt(s)	1797	Square Double clamp(s) (w/Stainless Steel Gate option)
357	5/16" x 1-3/4" carriage bolt(s)	1798	Square Triple (w/Stainless Steel Gate option)
423	5/16" -18 nut	330	Panel Clamp (w/Chainlink Gate option)
369	1/4"-20 x 1-1/2" hex head bolt (w/Stainless Steel Gate option)	328	Triple Clamp (w/Chainlink Gate option)
422	¼" -20 hex nut	3118	Single Clan1p -l"(w/Stainless Steel Gate) Option)
1400	1/4" x 1-1/2" Rawl Spike(s) (anchored systems only)	3119	Double Clamp -1" (w/Stainless Steel Gate option)
2449	Sealant	3120	Triple Clamp -1" (w/Stainless Steel Gate option)
1071	Special pulleys (w/Kennel Door option)		Tie Plate(s) 1-1/2" x length of panel
			"Sanislope T"
1344	1/4" X 1-1/4 "Hex Head Tapcons	421	1/ 4"Nyloc nut
		1906	1/4-20 x 5/8" Flat head screw

Installation

Required installati011_ tooling:

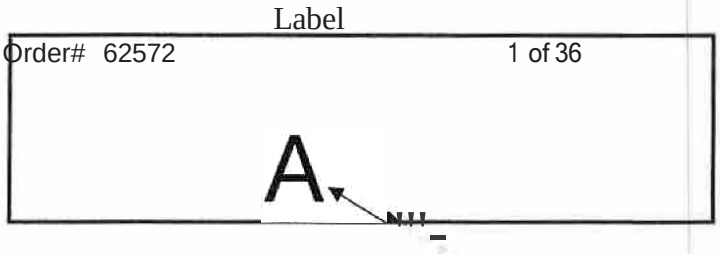
- Level (4' preferred)
- 1 /2" Combination wrench
- 7/16" Combination wrench
- Hammer
- Hammer drill (anchored systems only)
- 1 /4" Masonry bit (anchored systems only)
- 5/16" drill bit (anchored systems only)
- #2 Phillips bit (2-3)
- Caulk gun
- Variable Speed Drill (cordless preferred)
- 11/64" drill bit
- Tape measure
- thalk line
- Dena.tured alcohol
- Shop rags
- 5/16" Nut driver bit

Optional to◆ls

- Visegrips - 8" locking C-clamps (3 pair recommenf1-ed)
- WD40 or other thread lubricant

Section A
Panel Identification

Refer to the floor plan supplied.
Depending on the nature of your Kennel Project you wfll have either letter and or number designations on the tag(s) wired to the top of the panel ◆s shown in Figure 1.



Letter / Number designation

Figure 1

Each connection point of the panels should be aligned as shown on the floor plan. Note the difference in the alignment of the two panel connectioni, shown in Figure 2. It will make a difference as to how your runs go together if you do not align the panels properly and in some cases they may not go together at all.

.Figure 2

Section B
Panel Assembly and Floor Layout Preparation

Sometimes the length or layout of the division panels :in a kennel requires that they be made up from rnuJtipJe pru1els. Each of the multiple panel assemblies must be connected before asseinbling the runs. Refen-ing to the Floor Plan and using the Panel Identification Tag as described in Section A, make all multi-division panel connections that are in line with one another using the following steps:

1. Lay the two panels to be connected on the floor so that they are oriented correctly per the Floor Plan and or "Panel Identification".
2. Align the top surfaces and pull the mating edges together tightly. Center the "tie plate" over the seam between the two panels as shown in Figure 3. The tie plate can be applied to either side of the panels but for appearance sake you may want to apply them consistently to the same side. Hold the panels and the tie plate so that they are flush at the top edge of the division panels and tightly pulled together.
3. Using the tie plate as a template, drill an 11/64" hole approximately 5/8" into the panels (not all the way tlu·ough) at each hole in the tie plate.
4. Using the #10-32 x 5/8" TEK screws provided, connect the panels by applying a screw in every hole drilled in step B-3.
5. Repeat steps B-1 through B-4 for all inline division panels.

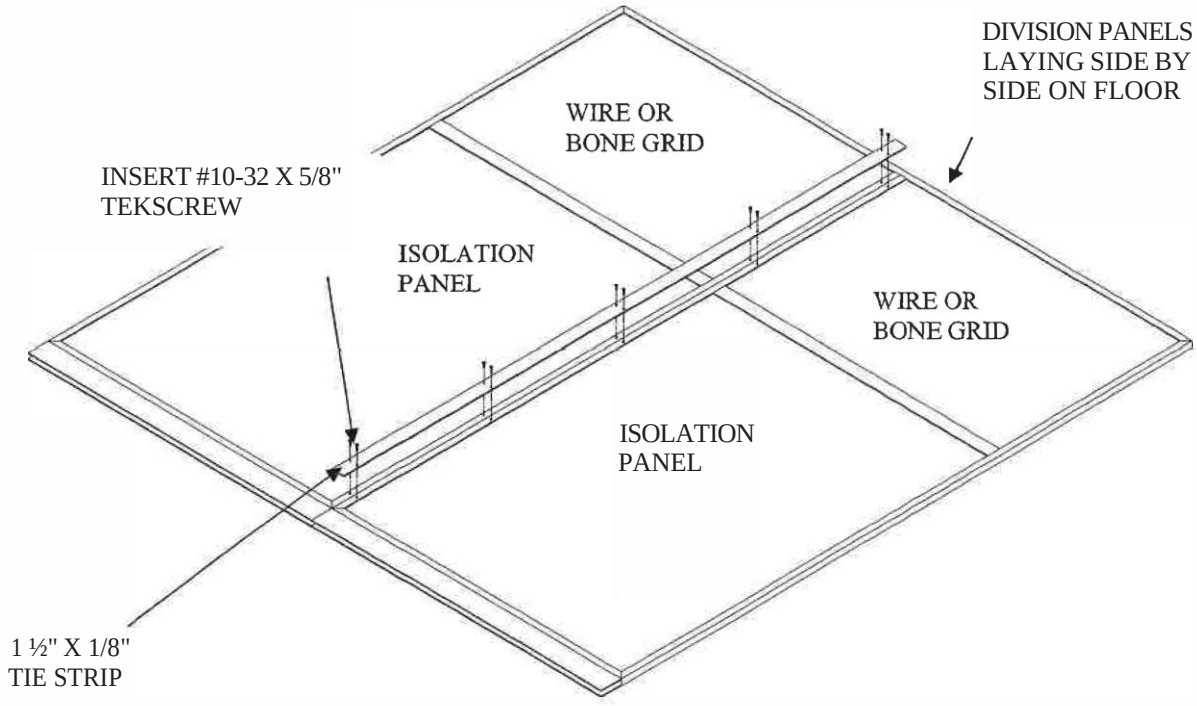


Figure 3

Section C

Run Assembly

1. Refer to the floor plan and select a starting point for assembling the runs (preferably on the end of a bank of runs at the intersection of the back panel and outside division panel), which is best for your application.
2. If your system is using Silvis Seals you must apply them to the Sanislope T's now. Orient the "T" as shown in Figure 4. Apply the end blocker by peeling off the backing strip and positioning the blocker at the end of the "T".

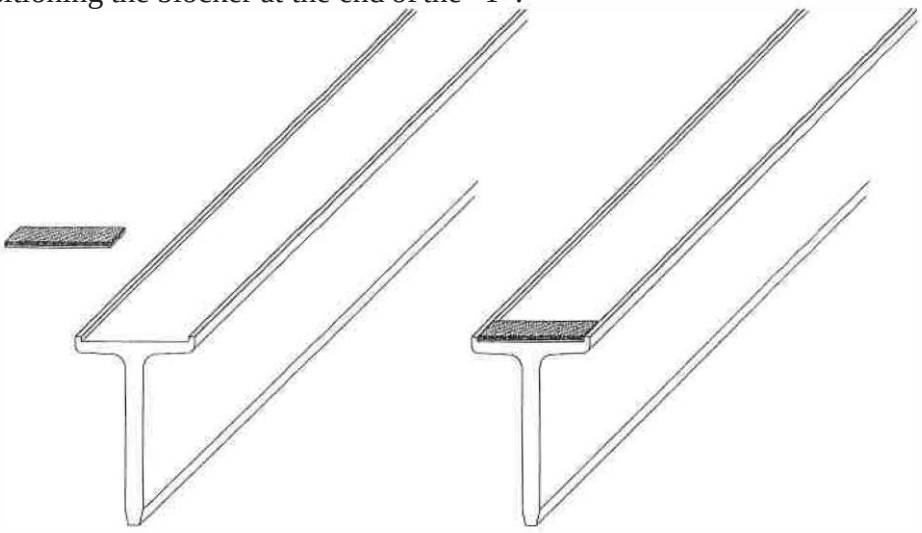


Figure 4

3. Apply the Silvis Seal to the "T" by removing approximately 2 ft. of backing tape. Starting at the end blocker, apply the Seal to the recessed channel in the "T" being careful to orient the Seal in line with the "T". Lay the rest of the Seal in the recessed channel. Carefully pull the remaining backing tape from the "Seal" and using light pressure adhere it to the aluminum as shown in Figure 5.

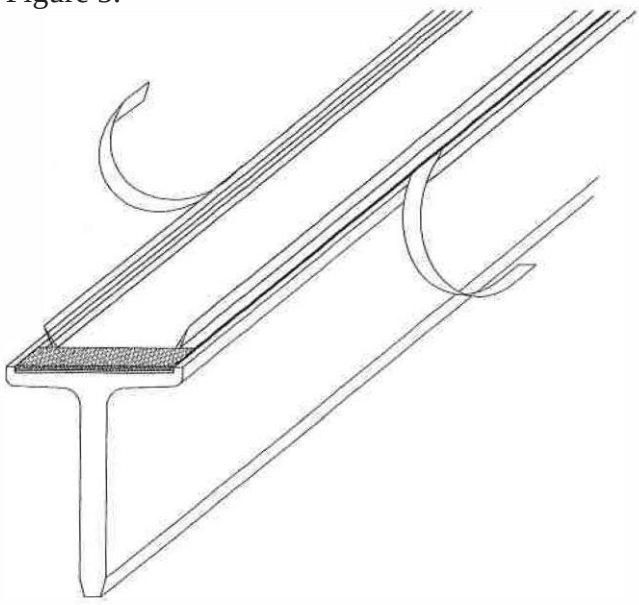


Figure 5

4. **Layout the "Sanislope T" sections approximately where they** will **lie on the final floor. Note: be sure that the end blocker that was installed in step 2 is at the outside or gate end of the run.**
5. **Optional:** This system is designed to function equally well whether it is fastened to the floor or not. If you do not want to fasten it the floor skip to step 7; otherwise proceed with step 6.
6. Using the 5/16" drill bit, pre-drill the "Sanislope T's" for the outside division panels only, as shown in Figure 4. These holes will be used later to anchor the system to the floor.

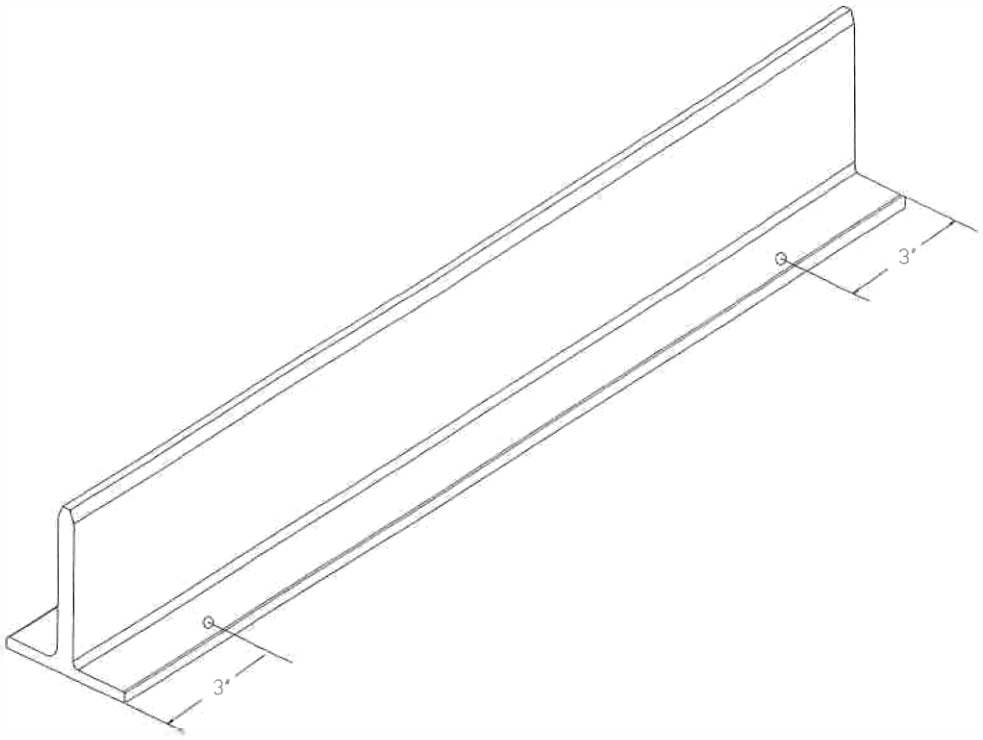
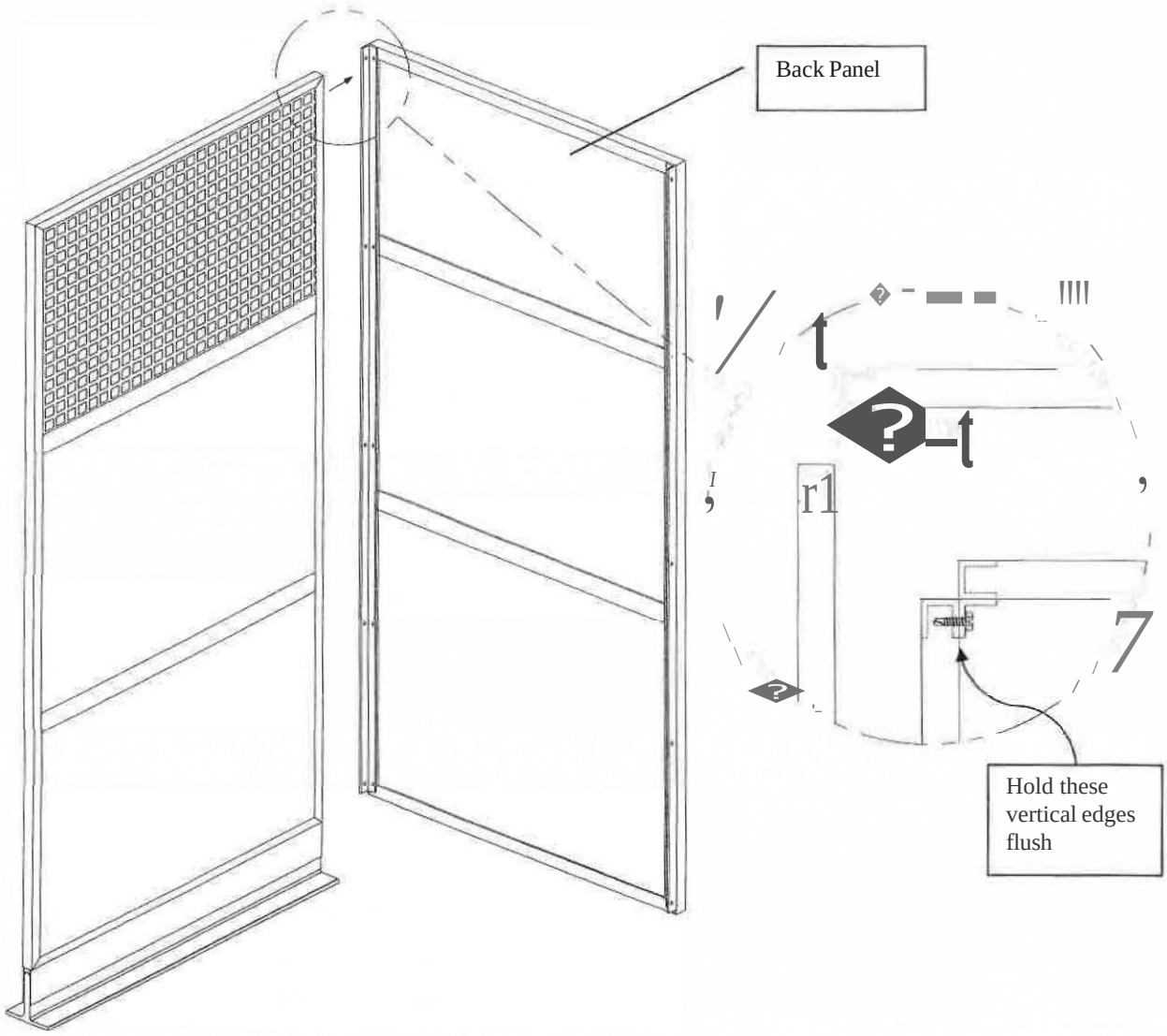


Figure 4

7. Starting from the point you selected in step C-1 place the first "outside division panel" on the corresponding "Sanislope T". Place the adjacent back panel as shown in Figure 5. Note that the vertical edges of the panel are flush with each other.



Picture 5

8. Begin assembling this panel to the first back panel using the #10-32 x 5/8" TEK screws provided, connect the panels by applying a screw in every hole in the division panel. **Note: these are self drilling, self tapping screws and do not require a pilot hole in the back panels.**
9. Position the next division panel in place and connect with the #10-32 x 5/8" TEK screws provided. See Figure 6.

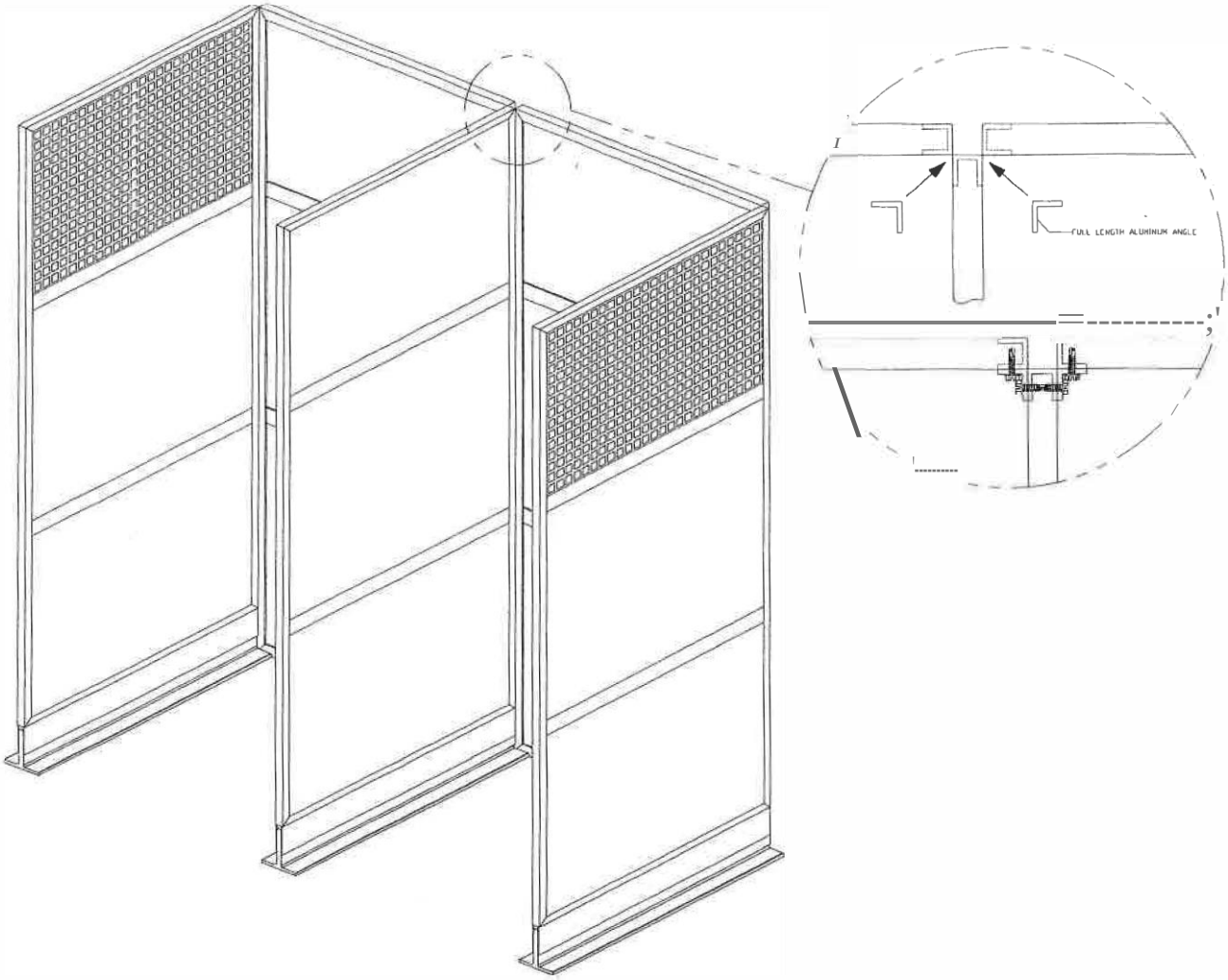


Figure 6

10. Repeat steps C-1 through C-6 to assemble all of the division panels to the back panels.
11. Repeat Steps B-1 through C-6 for all other banks of runs.

Section D
Installing the floor and ramp supports

1. Please note that there are two different lengths of floor support angles required. The shorter of the two angles is always the upper floor support.
2. Position a short floor support angle against the division panel as shown in figure 7.
3. Secure the angle to the division panel with 3 TEK screws.
4. In the same manner position and secure a long floor support angle to the division panel as shown in figure 7.
5. Repeat steps D-1 through D-4 for all division panels.

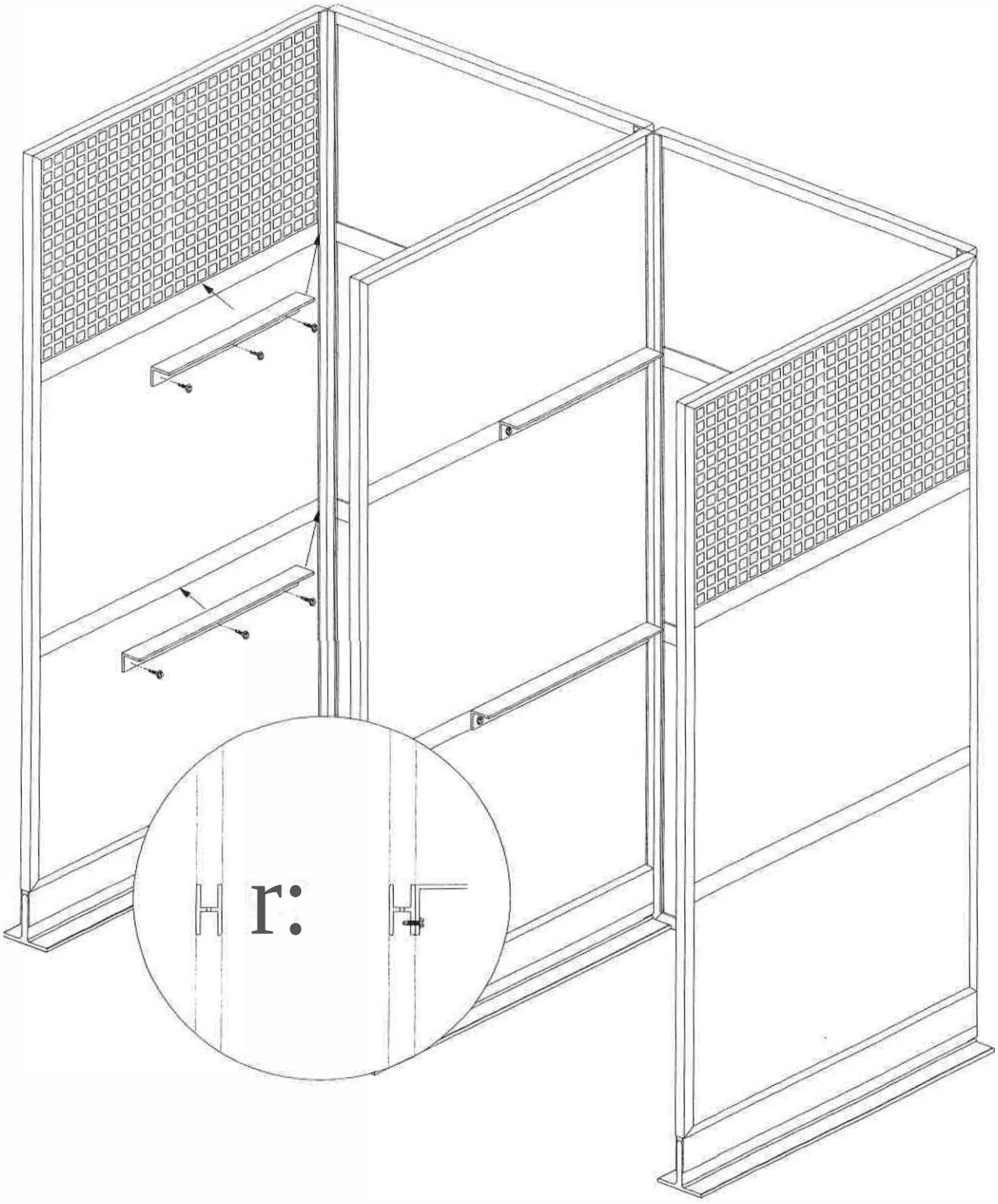


Figure 7

6. Determine which side of the run that you want the upper end of the lower ramp to be located.
7. Using TEK screws, position and secure two ramp support brackets in front of the appropriate floor support angle. The first bracket should be against the end of the floor support. The second support bracket should be spaced 2 inches apart from the first bracket. See Figure 8.

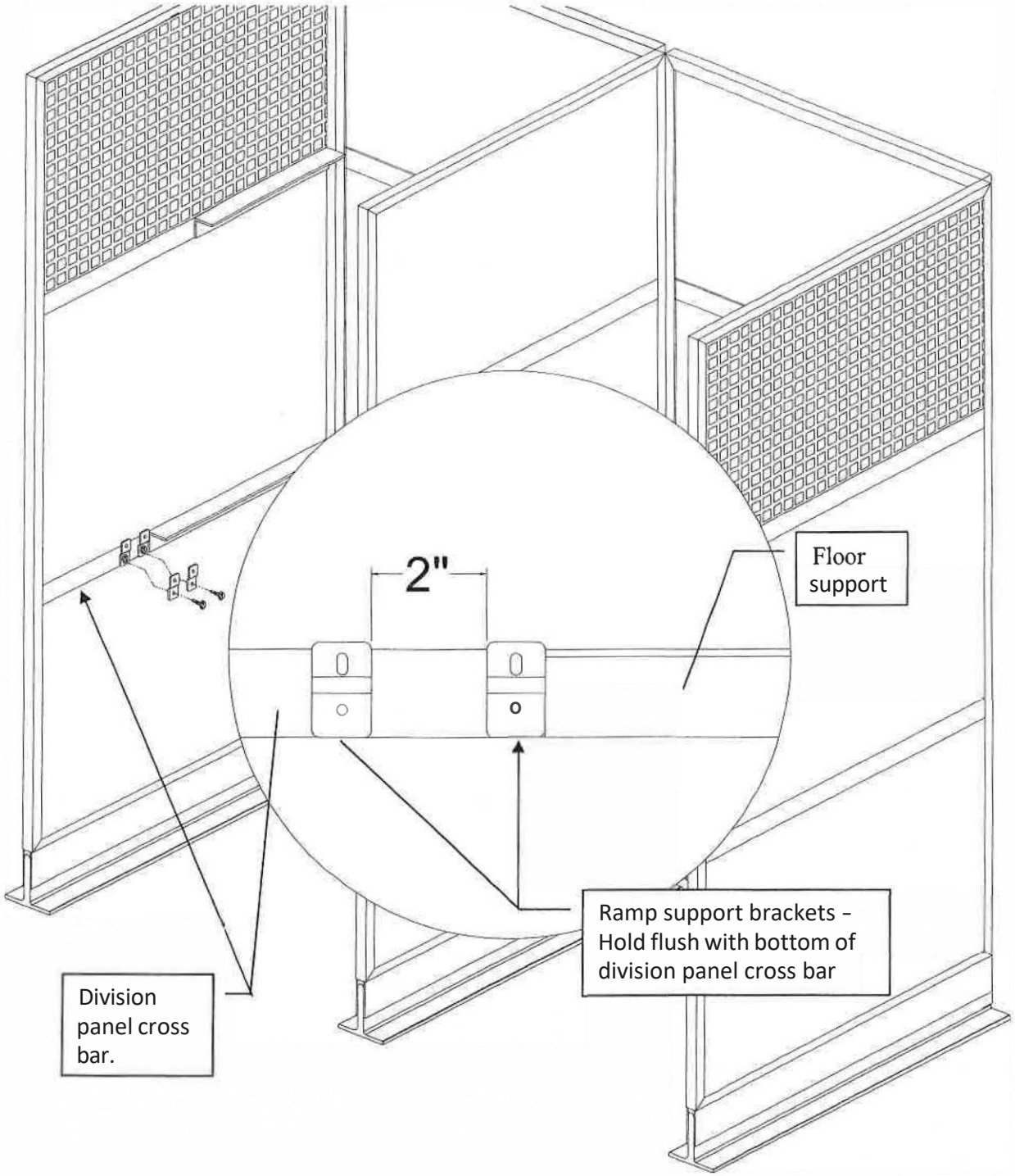


Figure 8

8. On the opposite side of the same run and one level higher position and secure the two ramp support brackets in front of the floor support. The first bracket should be against the end of the floor support. The second support bracket should be spaced 2 inches apart from the first bracket. See detail view of figure 8.
9. Place the shelves on top of the appropriate floor support angles.
10. Place the ramps in position by sliding the top mounting angle on the ramp down on to the ramp support brackets. The side of the ramp should be against the front of the shelf. See figure 9.

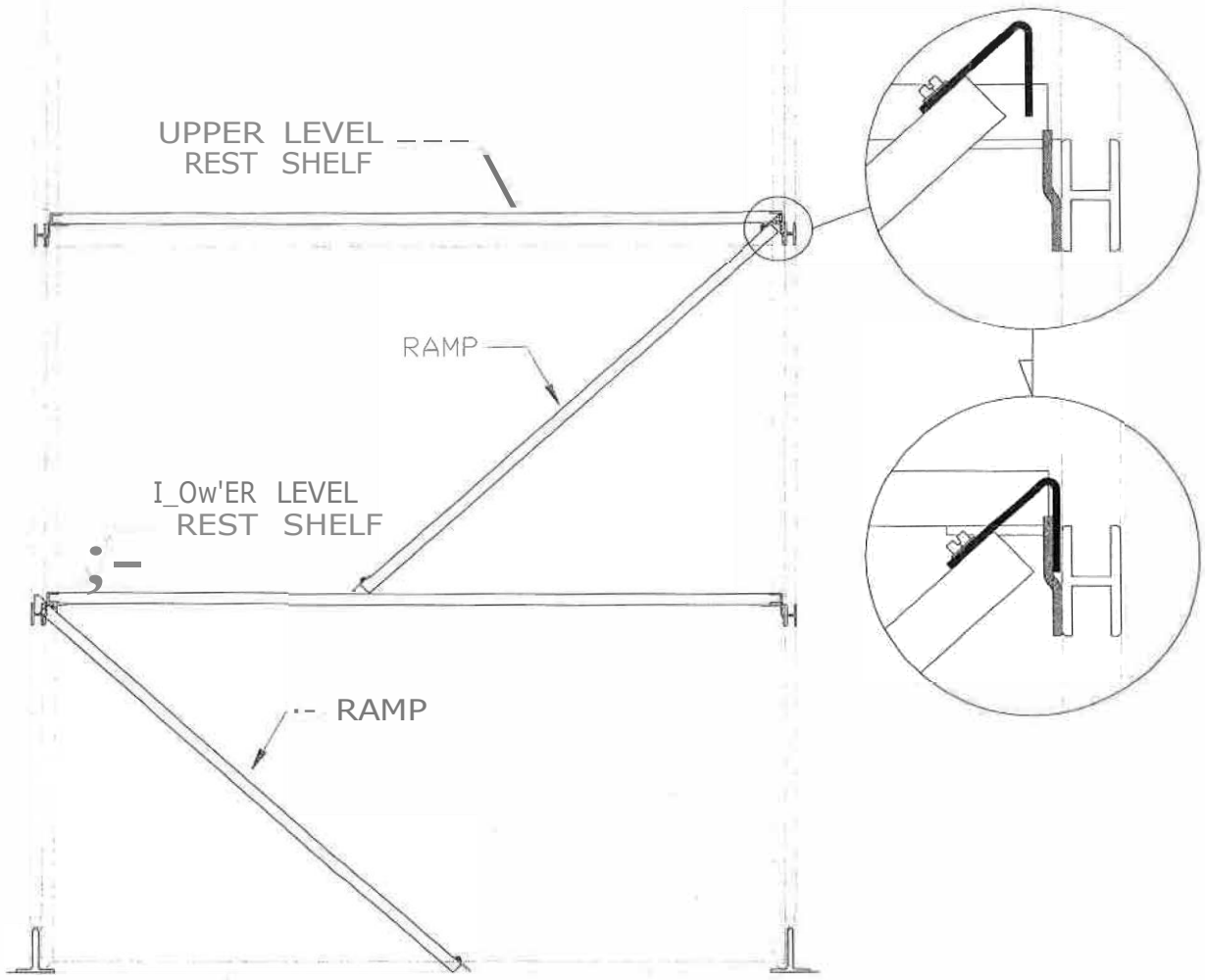


Figure 9

Section E
Gate / StalJ Front Hanging

Your system may include Chainlink or Aluminum Framed Stainless Steel gates or stall fronts or both. Use the approp1iate instructions for hanging your gates and or stall fronts.

ChainJink Gates / Stall Fronts

1. Attach the filler pipes to the front end of each division panel with two Square-Round clamps (it takes two halves to make up one clamp) approximately 6" from either end of the filler pipe using the 5/16" x 1-3/4" carriage bolts and 5/16" nuts provided as shown in Figure 10.

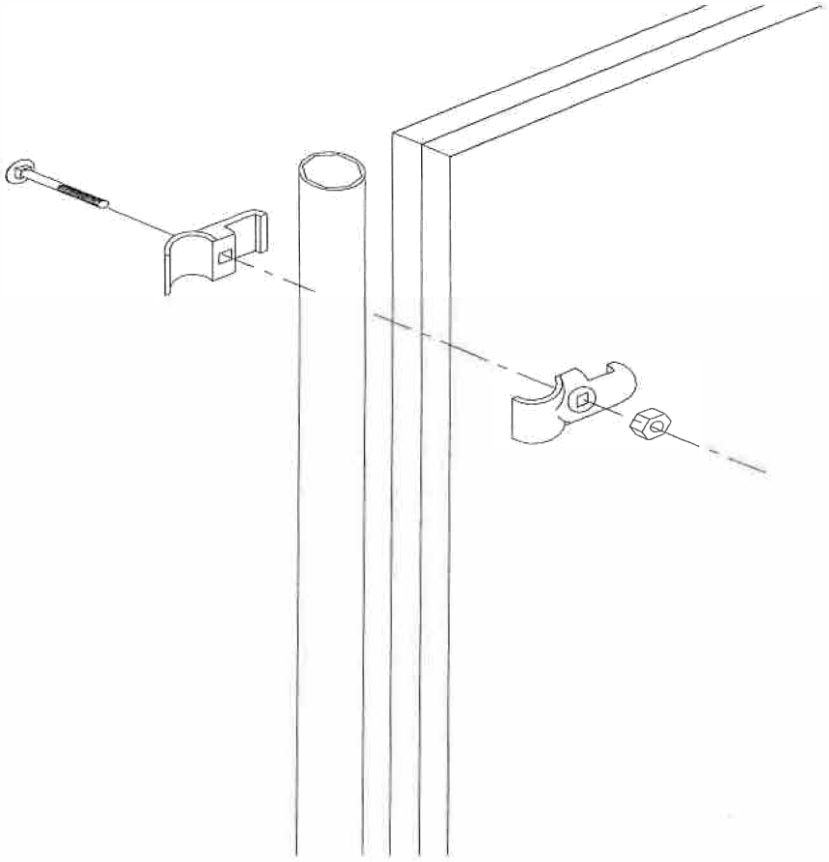


Figure 10

2. Attach the gate / stall front on the front of each run between the filler pipes with two clamps on each side using the 5/16" x 1-1/2" bolts and nuts provided as shown in Figure 11. Note: It takes two halves to make up one clamp. Attach gates / stall fronts to outside division panels using "panel clamps". All other gates / stall fronts will use "triple clamps". **To help insure the safety of the animals the round head of the bolt should be assembled toward the inside of the run.** Note: The triple clamps attach two gates/ stall fronts together. Therefore you will have to hang two gates/ stall fronts at the same time (see Figure 12).
3. Adjust the gate latch following the instructions in section G, "Gate Latch Adjustment".

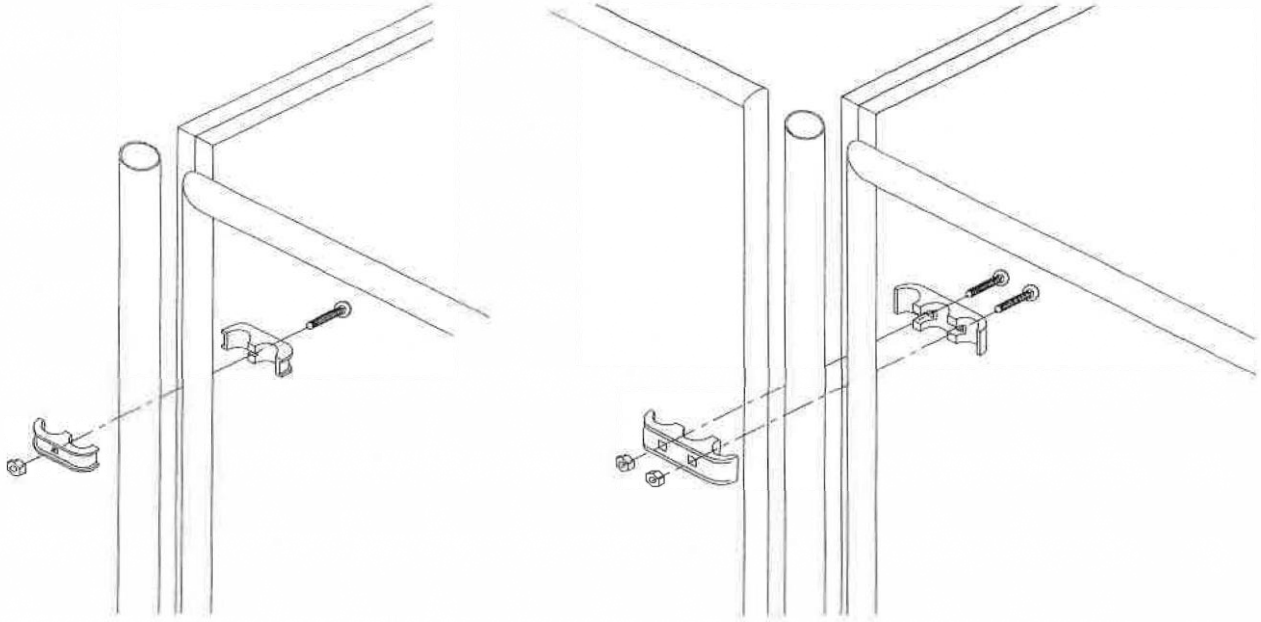


Figure 11

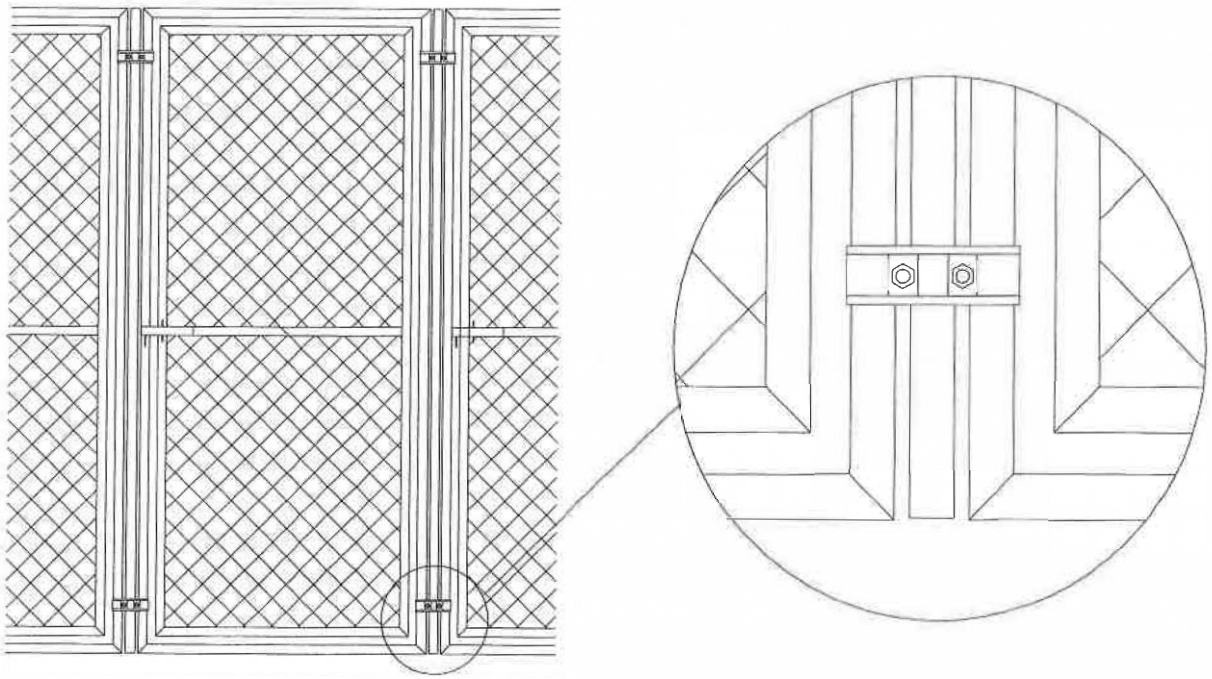


Figure 12

Stainless Steel Gates / Stall Fronts

1. Attach the gate / stall front on the front of each run between the division panels with two clamps on each side using the 5/16" x 1-1/2" bolts and nuts provided as shown in Figure 13. Note: It takes two halves to make up one clamp. Attach gates/ stall fronts to outside division panels using "square - 1" panel clamps". All other gates / stall fronts will use "square - 1" triple clamps". To help insure the safety of the animals the round head of the bolt should be assembled toward the inside of the run. Note: The triple clamps attach two gates/ stall fronts together. Therefore you will have to hang two gates/ stall fronts at the same time (see Figure 14).
2. Adjust the gate latch following the instructions in section G, "Gate Latch Adjustment".

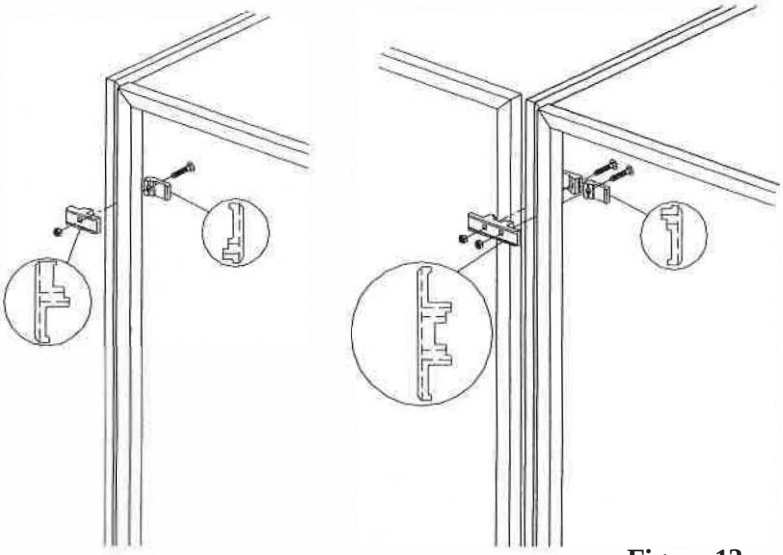


Figure 13

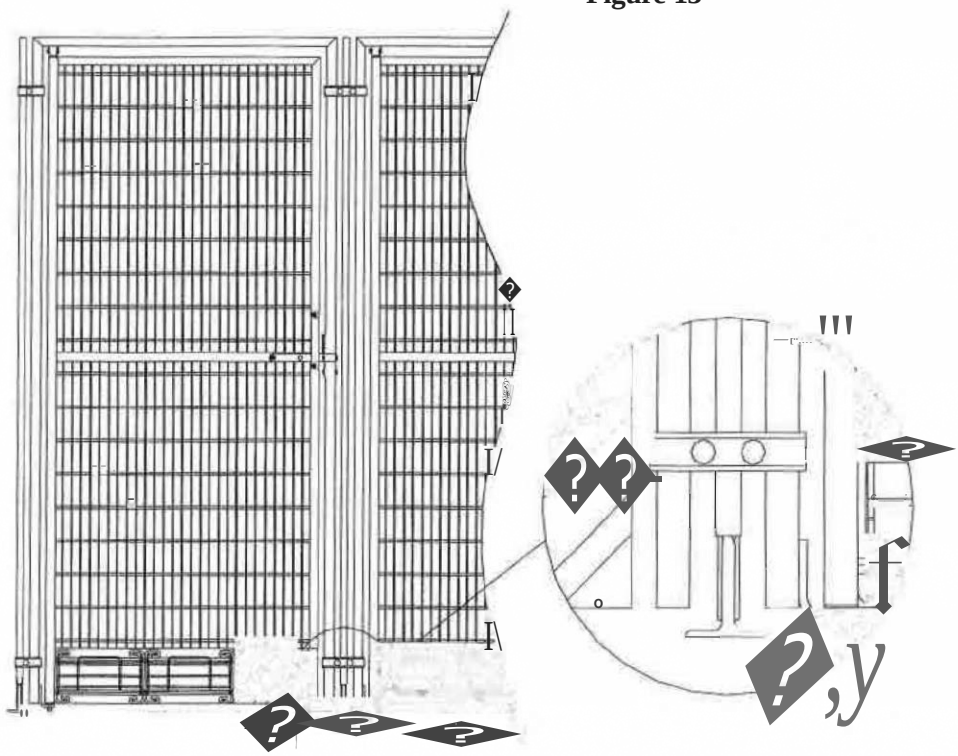


Figure 14

This Mason system is designed to work equally well whether it is anchored t_o the floor or not. If ou desire to anchor it to om floor roceed with Section F otherwise ski J to Section G.

Section F

Anchor System to Floor

Important: Before anchoring your system to the floor verify the entire installation is where you want it, square to the lines marked in step C-1 and leveled. Once you have verified this, you can anchor the "Sanislope T's" on the outside division panels to the floor using the following steps:

1. Using the holes you drilled in step C-3 as a template, drill a 1/4" hole using a hammer drill, with a 1/4" masonry bit to a minimum of 1-1/4" deep.
2. Inse1i a 1/4" x 1-1/2" Rawl Spike provided into the hole and drive it in with a hammer until the "Sanislope T" is tight against the floor and the head of the Rawl Spike is tight against the "Sanislope T".
3. Repeat steps F-1 and F-3 for all hole locations shown in Figure 15.
4. Repeat steps F-1 through F-4 for all outside division panels.

APPLY A BEAD OF SILICONE ALONG BOTH SIDE OF THE DIVISION PANELS AND THE INSIDE EDGE OF THE BACK PANELS

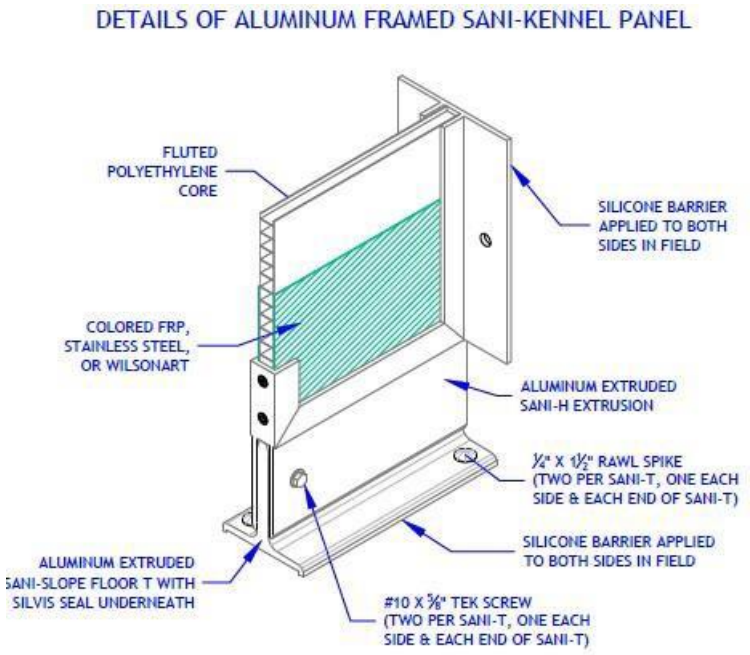


Figure 15

Section G
Sealing

1. Clean along the edge of all of the Division and Back panels where they come in contact with the concrete using denatured alcohol applied to shop rag.
2. Apply a thin bead of sealant provided along the seam created between the panels and the concrete as shown in Figure 15.

Section H

Gate/ Stall Front Adjustment

During shipment and installation, gate assemblies may be forced out of adjustment. If your gate does not latch automatically when pushed closed, the latch can be adjusted by following these instructions.

Chainlink Gate/ Stall Front *(Reference Figure 16)*
During the following adjustment process you may need to move the wire mesh slightly. If necessary, use a small block of wood and hammer to tap the wire out of the way.

1. *Loosen the latch catch bolt just enough to allow the latch catch to slide up and down.*
2. *Tap the latch catch up or down until the inside latch bar handle rests on the horizontal brace pipe and the latch bar rests in the bottom of the latch catch.*
3. *Check to insure the pendant swings freely. If it catches on the latch catch bolt or you've run out of adjustment in the latch catch slot you may have to raise the gate inside of its frame.*
4. *If the gate needs to be moved, loosen the top and bottom hinge bolts and raise (or lower) both the gate and the top hinge as needed then tighten both hinge bolts.*
5. *Re-adjust the latch catch.*
6. *Tighten latch catch bolt.*

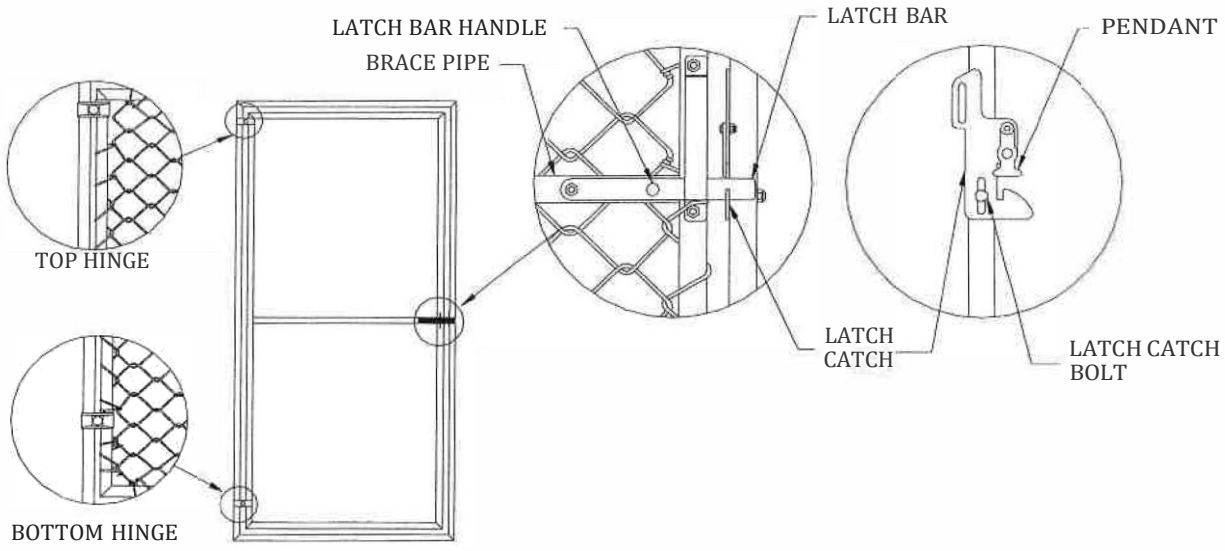


Figure 16

Stainless Steel Gate / Stall Front (Reference Figure I7)

I. Loosen the latch catch bolts just enough to allow the latch catch to slide up and down.
2. Tap the latch catch up or down until the inside latch bar handle rests on the inside of the keeper and the latch bar rests in the bottom of the latch catch.
3. Tighten latch catch bolts.

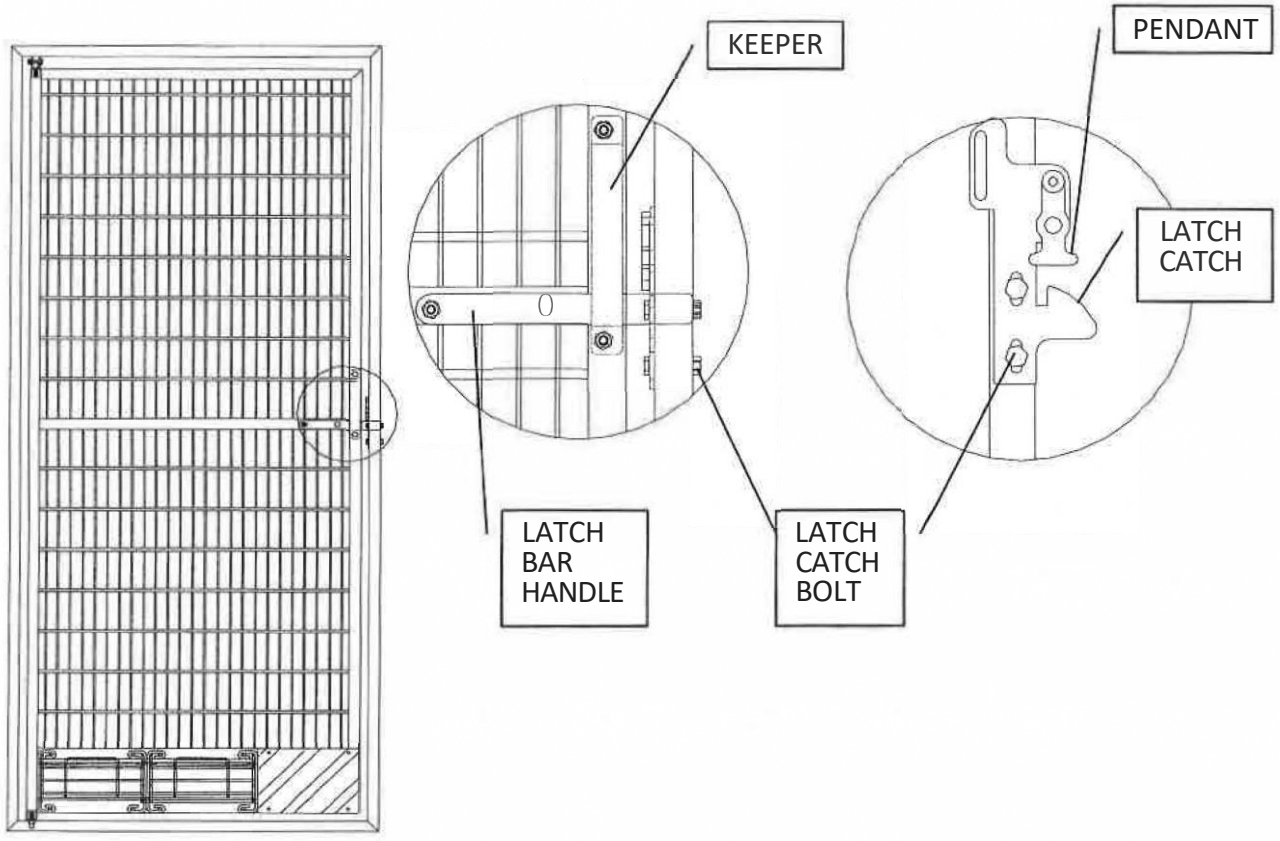
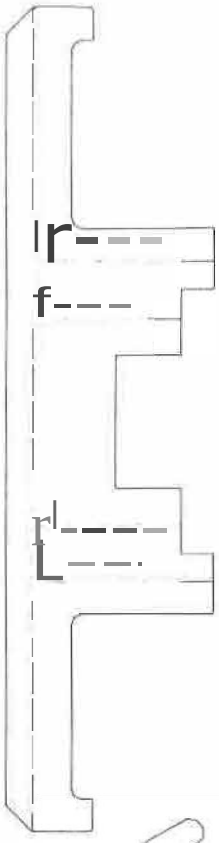


Figure 17

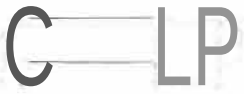
Maintenance

Over time, your Mason kennels might require adjustments, lubrication, or replacement parts in order to remain in top working condition. We recommend a yearly maintenance schedule to lubricate door hinges, adjust gate locks and any other moving parts. A standard, industrial grease works well. If your kennels should need any replacement parts, our professional sales engineers will be happy to review your original order and assist you.

TRIPLE CLAMP - 1"
#3120



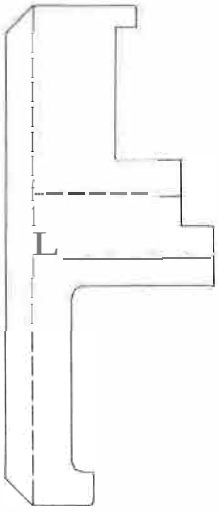
SINGLE SQUARE
CLAMP #1799



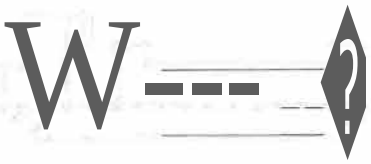
DOUBLE SQUARE
CLAMP #1797

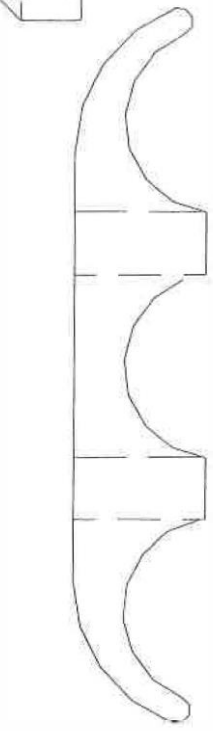
TRIPLE SQUARE
CLAMP #1798

DOUBLE SQUARE
CLAMP-1" #3119

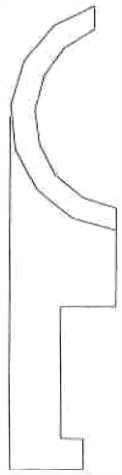


SINGLE CLAMP - 1"
#3118

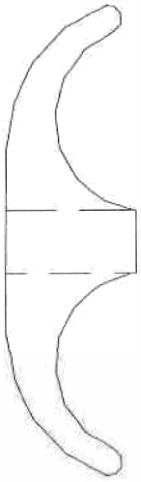




TRIPLE CLAMP
#328



SQUARE TO
ROUND CLAMP
#1468



PANEL CLAMP
#330

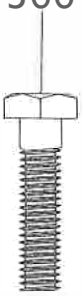
1/4" X 1 1/2" — –
RAIL SPIKE,
PART # 1400

#12 X 1" SELF TAPPING
SCREW HEX HEAD
PART # 891

1/4" x 1 1/4" TAPCON
PART # - 1344

1/4-20 X 1-1/2 HHCS,
PART# 369

1/4-20 X 1" HHCS,
PART# 366

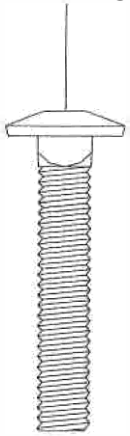


1 5/16-18 NUT
PART# 423

1/4-20 X 5/8"
FLAT HEAD SCREW
PART# 1906

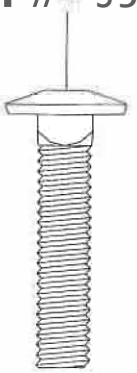
1/4-20 NUT
PART # 422

5/16" X 1-3/4"
CARRIAGE BOLT
PART # 357



1/4-20 NUT
PART# 421

5/16" X 1-1/2"
CARRIAGE BOLT
PART# 356



#10 X 32 X 5/8"
HEX WASHER HEAD
TEK SCREW
PART # 2222