



Installation Instructions for Gen 4 Ultrabase Trim Panels

Introduction

Thank you very much for your investment in Mason kennels. 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 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 the following hardware:

Part #	Description	Part #	Description
2222	#10 x 5/8" TEK hex washer head sheet metal screw(s)	2581	#10 x 1 1/2" TEK hex washer head sheet metal screw(s)
3808	1/4" x 1 3/4" TAPCON	1907	1/4"-20 x 1" Truss head screw(s)
421	1/4" -20 Nylok hex nut(s)	1200	2" x 2" Aluminum Angle
1200	2" x 2" x 10 1/2" Aluminum Angle	8004	4" x 36" Trim Plate
8005	4" x 48" Trim Plate		7 1/2" Tall Front FRP Trim Panel
	13" Tall Side FRP Trim Panel		

Installation

Required installation tooling:

- Level (4' preferred)
- Permanent Marker
- 4 ½" Angle Grinder w/Abrasive Cutoff Wheel
- Hammer Drill
- 3/16" Masonry drill bit
- #2 Phillips bit (2-3)
- 7/16" Combination Wrench
- Chalk line
- Tape measure
- 5/16" drill bit
- Drill (cordless)
- 5/16" Hex Driver Bit
- Impact Driver (cordless)

Section A Panel Identification

Refer to the floor plan supplied.

Depending on the nature of your Kennel Project you will have either letter and or number designations on the tag(s) wired to the top of the panel as shown in Fig. 1.

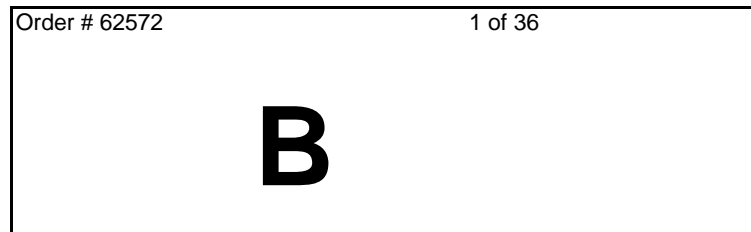


Fig. 1

On the floor plan each panel is marked with an alphanumeric designation that corresponds to the designation on the tag of the panel to be installed at a particular location.

Each connection point of the panels should be aligned as shown on the floor plan. 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.

Section B Front Trim Panels

1. After units have been set in place, leveled, and plumbing connected, use a level and chalk line to mark the floor location of Front Trim Panel angle supports. See Fig. 2.

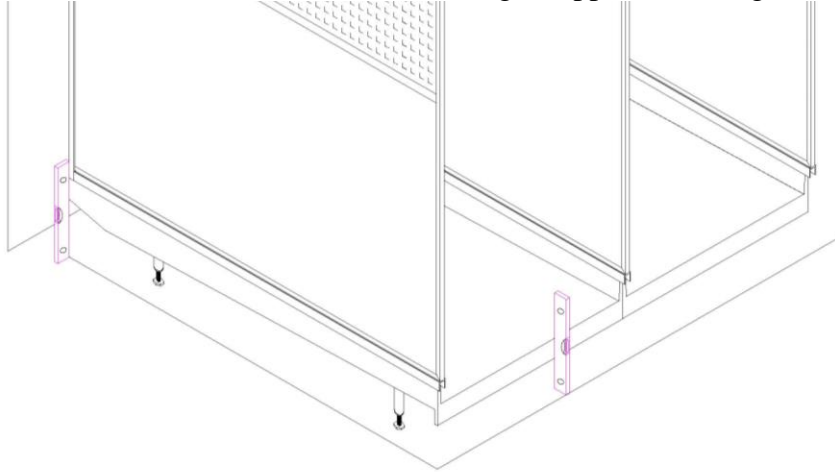


Fig. 2

2. Place aluminum angle supports along chalk lines to determine proper fitment. Some trimming of aluminum angle supports using a 4 1/2" Angle Grinder w/Abrasive Cutoff Wheel may be necessary to achieve proper fitment, depending on individual application. See Fig. 3.

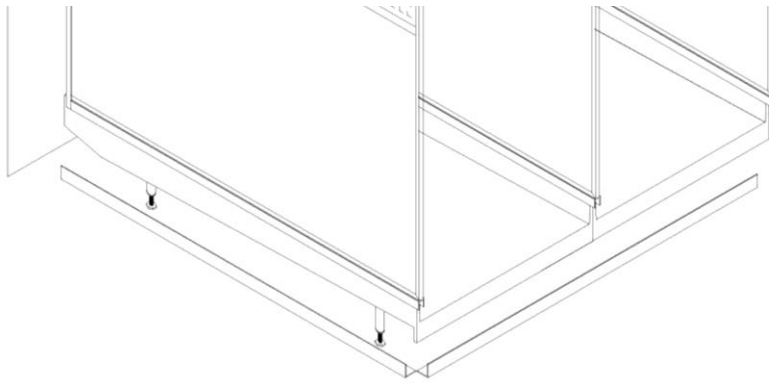


Fig. 3

Note: End Units should have approximately 1 3/8" space between end of angle and end of Ultrabase. See Fig. 4.

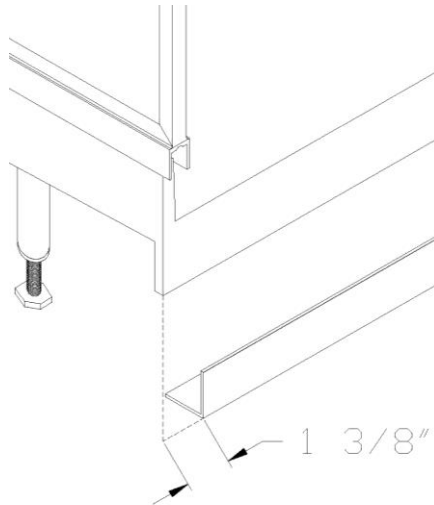


Fig. 4

3. After determining proper fitment, use a permanent marker to mark the lower leg of the Front Trim Panel aluminum angle supports for floor anchor locations. These marks should be approximately one inch from each end of the angle and approximately every 6-12" between. See Fig. 5.



Fig. 5

4. Using a 5/16" drill bit, pre-drill aluminum angle supports to accept Tapcon Floor Anchors and mark hole locations on the floor surface. See Fig. 6.

Note: Floor anchoring is not required but does add strength and rigidity to the Front Trim Panels.



Fig. 6

5. Using a Hammer Drill with a 3/16" Masonry Drill Bit, drill holes at least 2" deep into the concrete floor being careful to avoid expansion joints.
6. With a Drill or Impact Driver and a 5/16" Hex Driver Bit, anchor the pre-drilled aluminum angle supports to the flooring using the provided 1/4" x 1 3/4" Tapcon Floor Anchors. See Fig. 7.

Note: Other types of flooring may require different types of fasteners that are not provided.

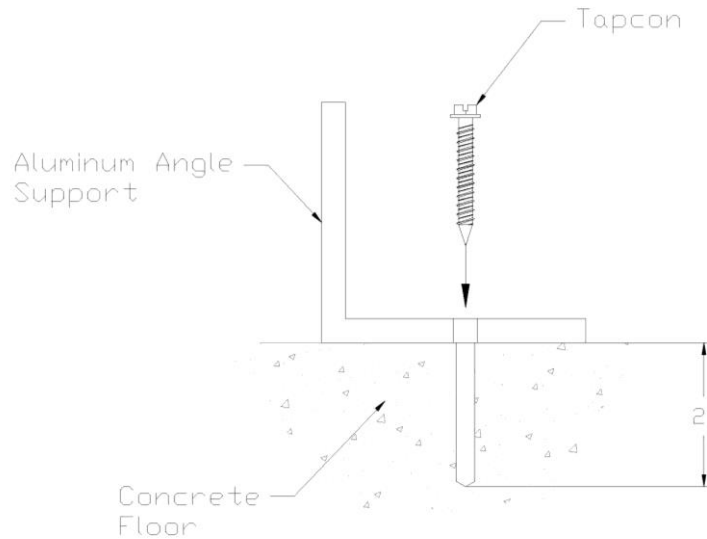
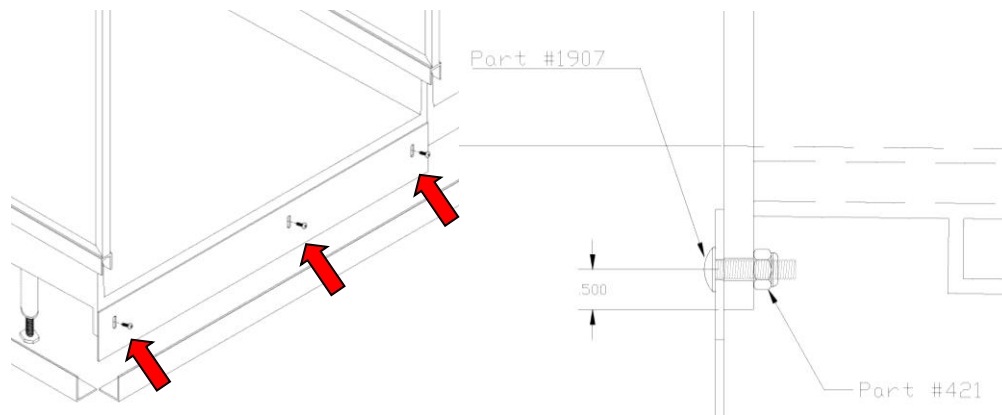


Fig. 7

7. Using a 5/16" Drill Bit and a 4" Trim Plate as a guide, drill holes in the front face of the Ultrabase. Holes should be approximately 0.5" up from bottom of the front face. See Figs. 8 and 9.



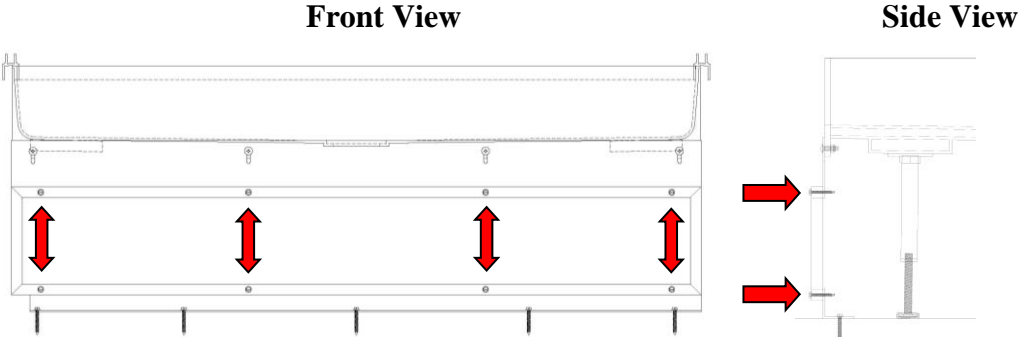
Figs. 8 and 9

8. Attach 4" Trim Plate to the Ultrabase with a Drill or Impact Driver, #2 Phillips Bit, and 7/16" Combination Wrench using the provided 1/4"-20 x 1" Truss head screw(s) and 1/4"-20 Nylok hex nut(s). Gently snug fasteners so trim panel may still be adjusted. See Figs. 8 and 9.
9. Place 7 1/2" Tall Front FRP Trim Panel against 4" Trim plate and aluminum angle supports, adjust 4" Trim Plate up or down if necessary and tighten Trim Plate 1/4"-20 x 1" Truss head screw(s).

Caution: Do not overtighten or damage to fiberglass Ultrabase may occur!

10. Secure 7 1/2" Tall Front FRP Trim Panel to 4" Trim Plate and aluminum angle supports using the provided 10 x 1 1/2" TEK hex washer head sheet metal screw(s). See Figs. 10 and 11.

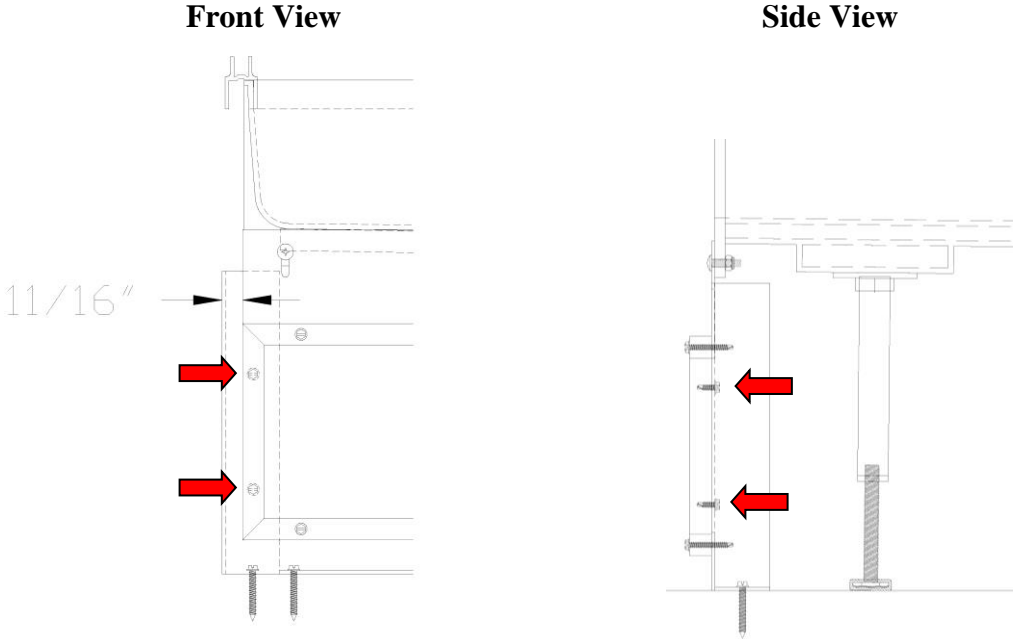
Note: If not anchoring to the floor use the #10 x 5/8" TEK hex washer head sheet metal screw(s) to attach the angle floor supports to the back of the 7 1/2" Tall Front FRP Trim Panel first.



Figs.10 and 11

11. Attach 2" x 2" x 10 1/2" Aluminum Angle to the back side of end Front Trim Panels using provided #10 x 5/8" TEK hex washer head sheet metal screw(s), leaving an 11/16" reveal on angle. See Figs. 12 and 13.

Note: Aluminum angle may need trimmed depending on height of Ultrabase when leveled.



Figs. 12 and 13

Section B Side Trim Panels

1. Use a level and chalk line to mark the floor location of Side Trim Panel aluminum angle supports. See Fig. 14.

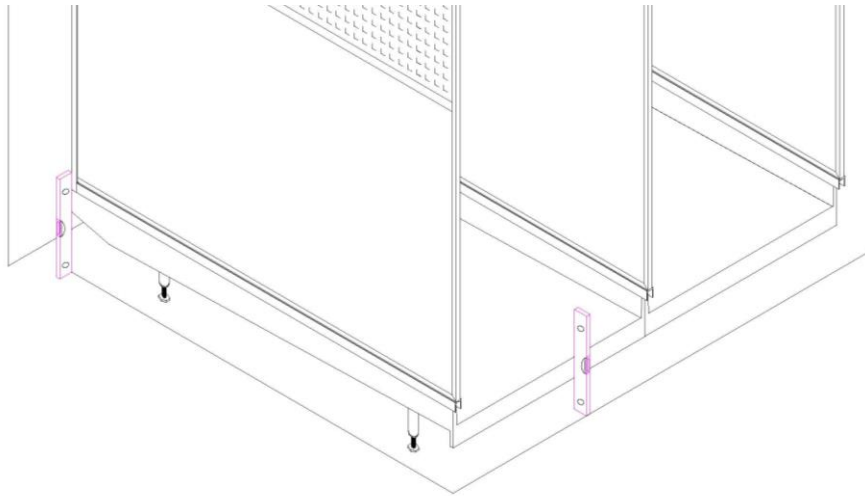


Fig. 14

2. Place aluminum angle supports along chalk lines to determine proper fitment. Some trimming of aluminum angle supports using a 4 ½" Angle Grinder w/Abrasive Cutoff Wheel may be necessary to achieve proper fitment, depending on individual application. See Fig. 15.

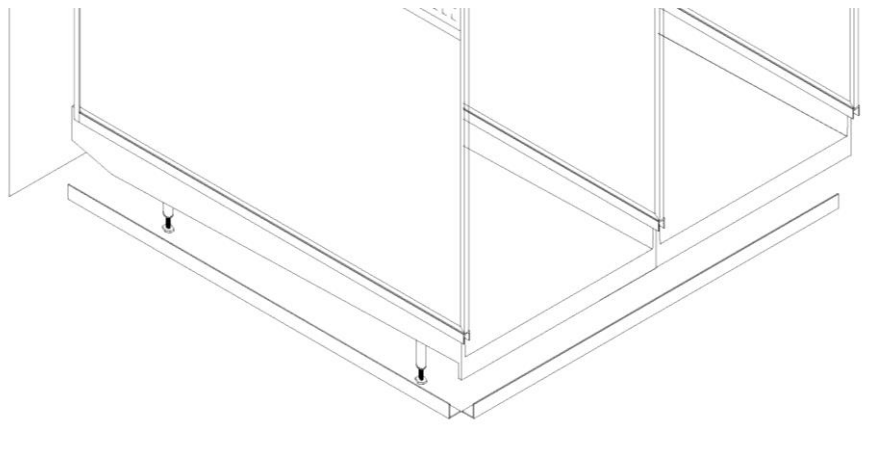


Fig. 15

- After determining proper fitment, use a permanent marker to mark the lower leg of the Side Trim Panel aluminum angle supports for floor anchor locations. These marks should be approximately one inch from each end of the angle and approximately every 6-12" between. See Fig. 16.



Fig. 16

- Using a 5/16" Drill Bit, pre-drill aluminum angle supports to accept Tapcon Floor Anchors and mark hole locations on the floor surface. See Fig. 17.

Note: Floor anchoring is not required but does add strength and rigidity to the Trim Panels.



Fig. 17

- Using a Hammer Drill with a 3/16" Masonry Drill Bit, drill holes at least 2" deep into the concrete floor being careful to avoid expansion joints.
- With a drill or Impact Driver and a 5/16" Driver Bit, anchor the pre-drilled aluminum angle supports to the flooring using the provided 1/4" x 1 3/4" Tapcon Floor Anchors. See Fig. 18.

Note: Other types of flooring may require different types of fasteners that are not provided.

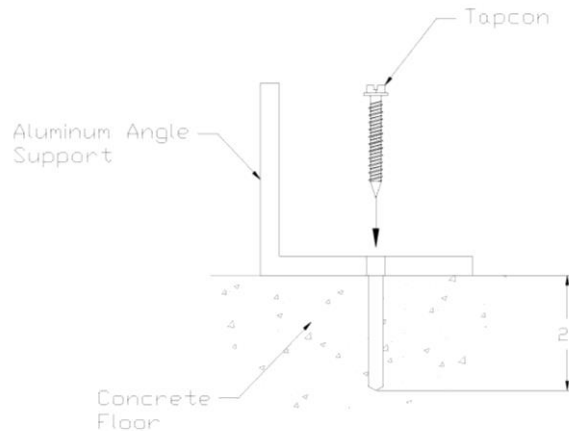
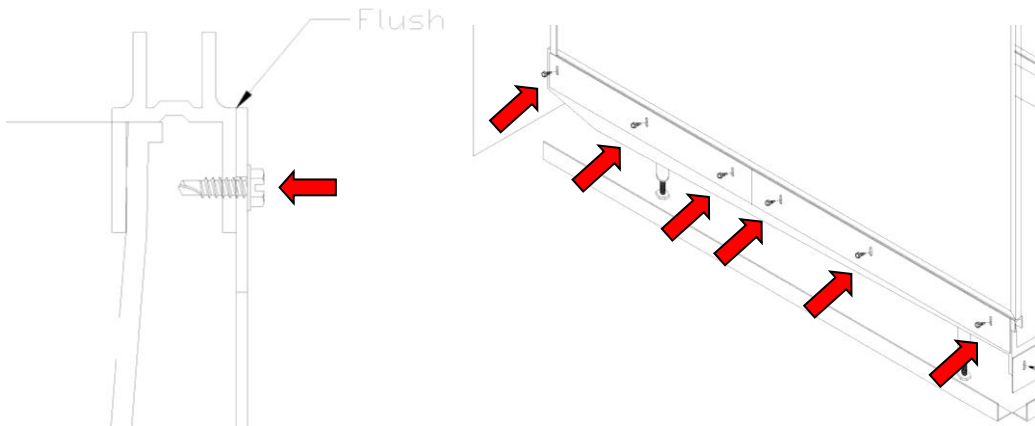


Fig. 18

- Align 4" Trim Plate flush with the bottom aluminum extrusion on the Ultrabase division panel and secure using the provided #10 x 5/8" TEK hex washer head sheet metal screw(s). See Figs. 19 and 20.

Note: A combination of 36" and 48" Trim Plates may be necessary to properly support 13" Tall Side FRP Trim Panel depending on size of Ultrabase.



Figs. 19 and 20

- Secure 13" Tall Front FRP Trim Panel to 4" Trim Plate and aluminum angle supports using the provided 10 x 1 1/2" TEK hex washer head sheet metal screw(s). See Fig. 21.

Note: If not anchoring to the floor use the #10 x 5/8" TEK hex washer head sheet metal screw(s) to attach the angle floor supports to the back of the 13" Tall Front FRP Trim Panel first.

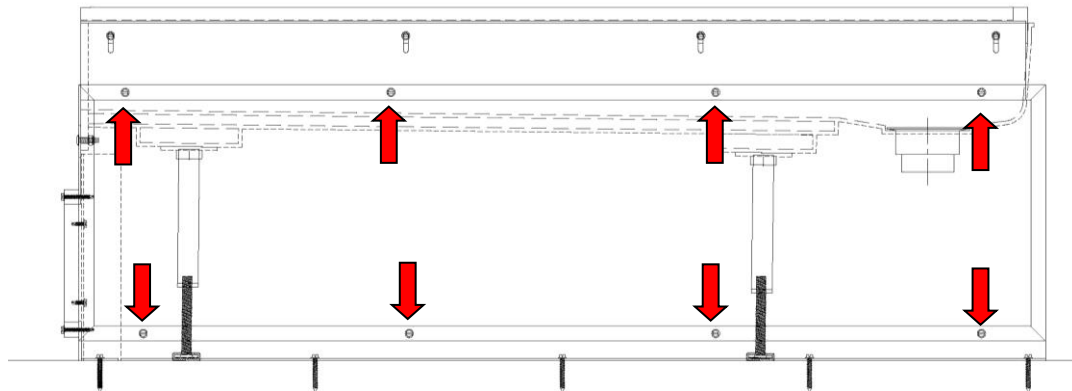


Fig. 21

- Secure 13" Tall Front FRP Trim Panel to the 2" x 2" x 10 1/2" Aluminum Angle attached to the back side of the Front Trim Panels using the provided 10 x 1 1/2" TEK hex washer head sheet metal screw(s). See Fig. 22.

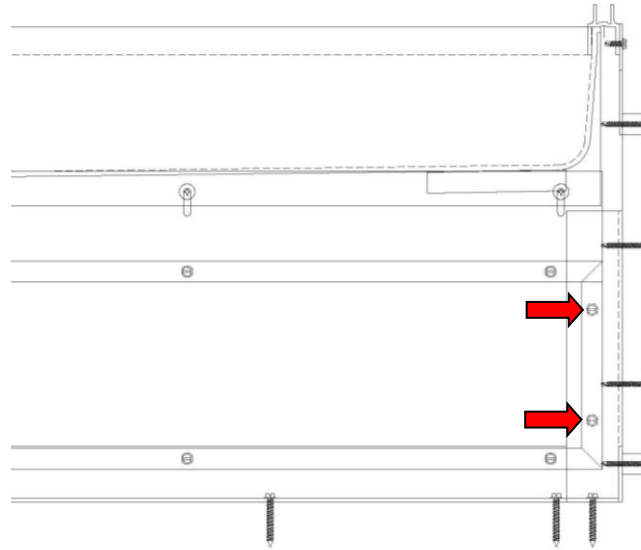


Fig. 22

