

# *Avimore*

*by Alliance*

## Installation Guide



## Quick Reference - Installation

### Step 1: Familiarize yourself with Avimore Fence

- Basic styles and fill options
- Post types and components
- Determining body height/width
- Determining post height

### Step 2: Space and mark holes

- Account for differences in spacing for interior vs exterior channel on posts

### Step 3: Dig holes

- Dig holes to a depth of at least 25% of total post height, and below frost line if applicable
- Holes should have a diameter of approximately 8"
- Bell out bottom of holes

### Step 4: Prep posts

- Cut posts if needed
- Install exterior u-channel on posts

### Step 5: Set posts

- Set each post in center of hole and pour concrete mix
- Tamp concrete to reduce air pockets
- Level and square post
- Test post spacing for each section with a rail or Breeze picket of the

correct length for the section

### Step 6: Install bottom rail or picket

- Secure bottom rail or picket with a bracket or screw on each side

### Step 7: Add fill material

- Slide pickets and spacers (if applicable) into channels on top of bottom rail or picket
- Install and secure top rail or picket with brackets or screws

### Step 8: Install gates

- Attach hinges to gate
- Line up gate to desired height
- Attach hinges to fully-set gate post
- Install latch
- Install cable kit if applicable

### Step 9: Add gap fillers and caps

- Cut gap fillers to post channel height and drop into end and corner posts.
- Install caps by pressing them down over the top of each post.

## Disclaimer

The instructions contained in this manual are provided for informational purposes only, and should not be taken as an exhaustive list of precautions and considerations to take into account when installing Avimore fencing products.

Environmental conditions, local laws and regulations, and specific fence components and configurations may necessitate deviation from the instructions contained in this manual.

Fence installation should always be conducted by or under the supervision of an experienced and responsible professional.

Follow all local building and zoning codes when installing Avimore fence. Do not install Avimore fence in an area where you do not have permission to do so.

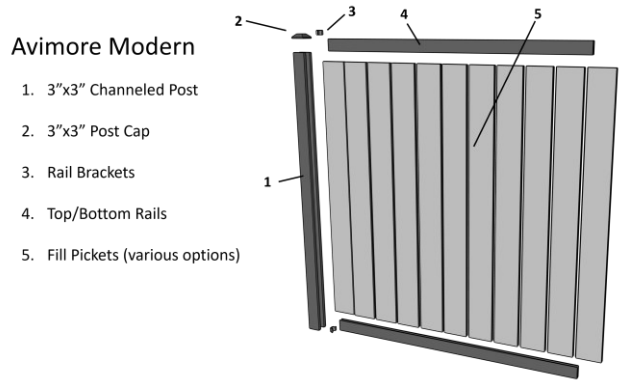
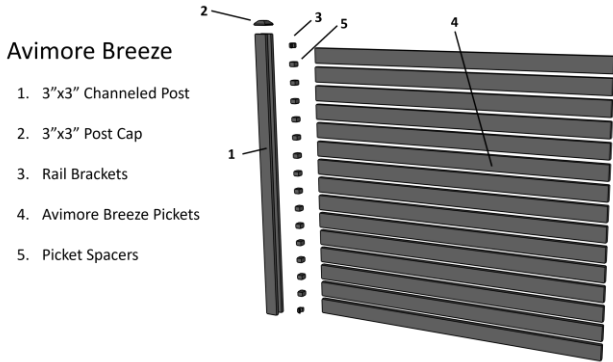


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## Step 1.1: Basic styles and fill options

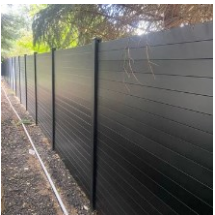
The frame + fill design of Avimore fence allows for a wide variety of aesthetic configurations. The two main styles are Avimore Breeze, which uses Avimore Breeze aluminum pickets between posts, and Avimore Modern, which uses pocket rails between posts to hold a horizontal or vertical privacy infill.



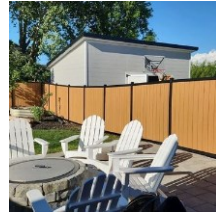
**Breeze Semi-Privacy**  
3.5" Aluminum Pickets with 0.5", 1", or 1 3/8" spacing



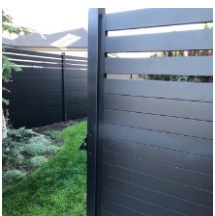
**Modern w/ Vinyl Fill**  
Aluminum Pocket Rails with vertical or horizontal Vinyl T&G Slats



**Breeze Full Privacy**  
3.5" Aluminum Pickets



**Modern Elite**  
Aluminum Pocket Rails with vertical or horizontal Composite T&G Slats



**Breeze Mixed Privacy**  
3.5" Aluminum Pickets with spacing only between top pickets.



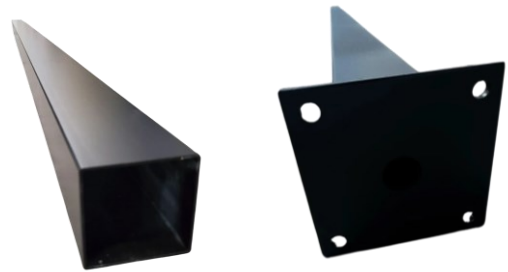
**Modern Naturals**  
Aluminum Pocket Rails with vertical or horizontal Cedar T&G Slats

## Step 1.2: Post types and components

There are two types of Avimore posts – aluminum channeled line posts, and steel gate posts. Both have a profile of 3”x3”. Steel gate posts will be needed on either side of any gate, and anywhere else a smooth blank post is required. Line posts can be used anywhere else. Hang gates only from in-ground posts.



Avimore Line Posts



Steel Gate Posts

Line posts are converted to end posts by adding gap filler to one side, and to corner or T-posts by adding u-channel to the smooth side(s) in addition to gap filler on any unused sides. Gate posts can be converted to line, corner, or T-posts by screwing on exterior u-channels.



Gap Filler



U-Channel

## Step 1.3: Determining body height and rail or picket width

Use the information below to calculate body height and inside-to-inside (I-I) section width.

### For Horizontally Oriented Pickets:

Breeze pickets are available in lengths of 72" or 96". T&G slats for Avimore Modern are available at 64" long, and can be cut shorter as needed. For the body height in inches corresponding to each picket count, refer to the chart below:

Picket Count	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Breeze Full Privacy	10 1/2	14	17 1/2	21	24 1/2	28	31 1/2	35	38 1/2	42	45 1/2	49	52 1/2	56
Breeze 0.5" Semi-Privacy	11 1/2	15 1/2	19 1/2	23 1/2	27 1/2	31 1/2	35 1/2	39 1/2	43 1/2	47 1/2	51 1/2	55 1/2	59 1/2	63 1/2
Breeze 1" Semi-Privacy	12 1/2	17	21 1/2	26	30 1/2	35	39 1/2	44	48 1/2	53	57 1/2	62	66 1/2	71
Breeze 1 3/8" Semi-Privacy	13 1/4	18 1/8	23	27 7/8	32 3/4	37 5/8	42 1/2	47 3/8	52 1/4	57 1/8	62	66 7/8	71 3/4	76 5/8
Breeze 1" Mixed (3 Rail)	12 1/2	16	19 1/2	23	26 1/2	30	33 1/2	37	40 1/2	44	47 1/2	51	54 1/2	58
Breeze 1" Mixed (4 Rail)	13 1/2	17	20 1/2	24	27 1/2	31	34 1/2	38	41 1/2	45	48 1/2	52	55 1/2	59
Modern Naturals	17 3/4	22 3/4	27 3/4	32 3/4	37 3/4	42 3/4	47 3/4	52 3/4	57 3/4	62 3/4	67 3/4	72 3/4	77 3/4	82 3/4
Modern Elite	19	24 1/2	30	35 1/2	41	46 1/2	52	57 1/2	63	68 1/2	74	79 1/2	85	90 1/2
Modern with Vinyl Fill	20 7/8	26 7/8	32 7/8	38 7/8	44 7/8	50 7/8	56 7/8	62 7/8	68 7/8	74 7/8	80 7/8	86 7/8	92 7/8	98 7/8

Picket Count	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Breeze Full Privacy	59 1/2	63	66 1/2	70	73 1/2	77	80 1/2	84	87 1/2	91	94 1/2	98	101 1/2	105
Breeze 0.5" Semi-Privacy	67 1/2	71 1/2	75 1/2	79 1/2	83 1/2	87 1/2	91 1/2	95 1/2	99 1/2	103 1/2	107 1/2	111 1/2	115 1/2	119 1/2
Breeze 1" Semi-Privacy	75 1/2	80	84 1/2	89	93 1/2	98	102 1/2	107	111 1/2	116				
Breeze 1 3/8" Semi-Privacy	81 1/2	86 3/8	91 1/4	96 1/8	101	105 7/8	110 3/4	115 5/8						
Breeze 1" Mixed (3 Rail)	61 1/2	65	68 1/2	72	75 1/2	79	82 1/2	86	89 1/2	93	96 1/2	100	103 1/2	107
Breeze 1" Mixed (4 Rail)	62 1/2	66	69 1/2	73	76 1/2	80	83 1/2	87	90 1/2	94	97 1/2	101	104 1/2	108
Modern Naturals	87 3/4	92 3/4	97 3/4	102 3/4	107 3/4	112 3/4	117 3/4							
Modern Elite	96	101 1/2	107	112 1/2	118									
Modern with Vinyl Fill	104 7/8	110 7/8	116 7/8											

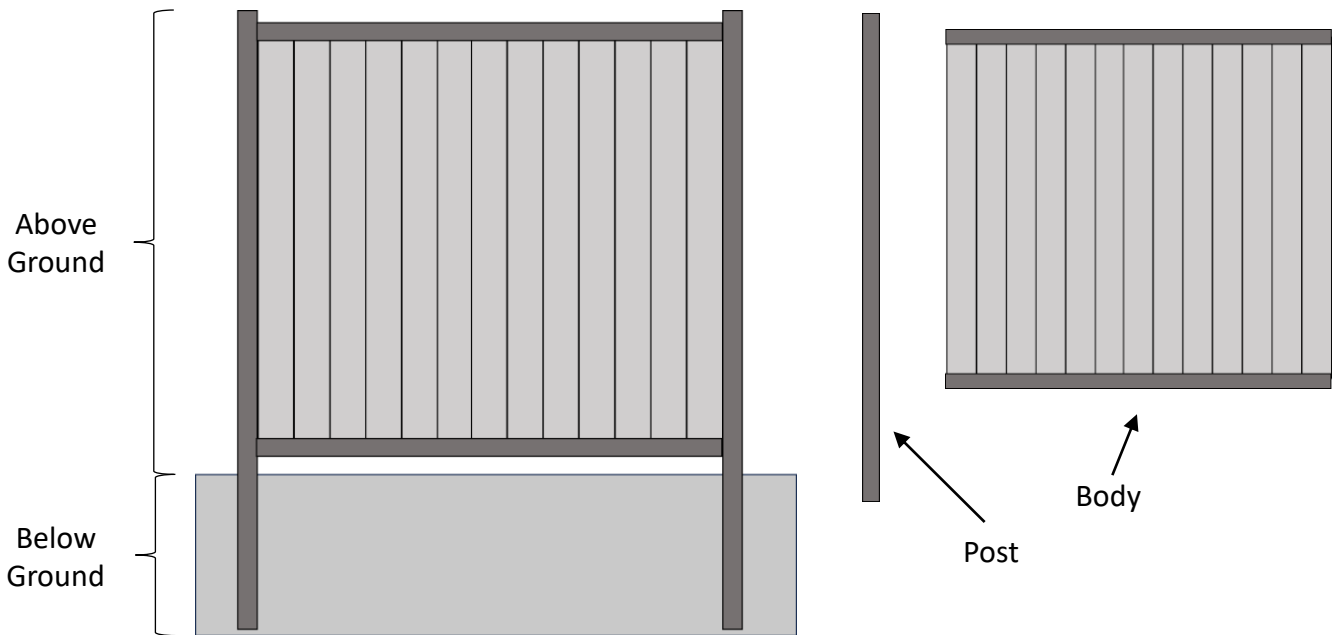
### For Vertically Oriented Pickets:

Avimore Modern Pocket Rails for vertically-oriented slats are available in lengths of 64½", 72", and 96", Body height is equal to picket length plus 3". For standard 64" vertically-oriented pickets the body height will be 67".

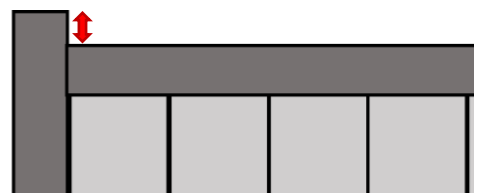
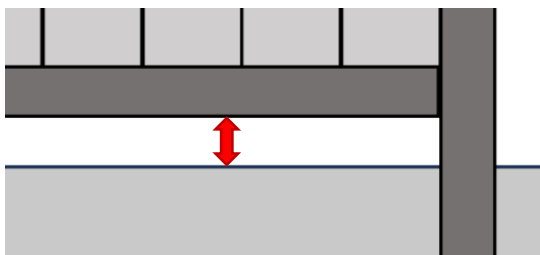


### Step 1.4: Determining post height

All Avimore posts have dimensions of 3"x3" square. Posts are sold in heights of up to 12'. Plan on keeping at least 25% of the post secured below ground for in-ground posts, and ensure that your above-ground post height is greater than the desired body height of the fence.



Bear in mind that the difference between the body height and the above-ground post height will determine the amount of spacing available between the body and the ground or post top.

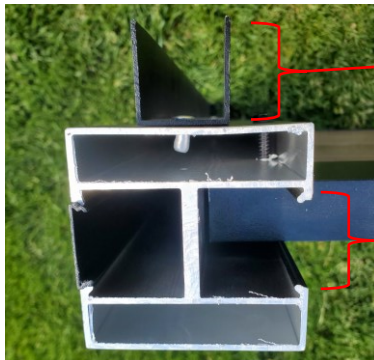


## Steps 2 and 3: Space posts and dig holes

To calculate center-to-center post spacing, begin with the pocket rail or Breeze picket length, and add  $\frac{1}{8}$ " for each interior post channel connection, and  $1\frac{5}{8}$ " for each exterior u-channel connection. Exterior u-channel will be needed for one side of each corner post or T post, and any side of a steel gate post connected to a non-gate section.

Pictured: Corner Post

- 1 line post
- 1 u-channel
- 1 gap filler



Exterior u-channel

Interior post channel

Dig post holes with a diameter of approximately 8", to a depth of at least 25% of the total post height. For example, a 96" post would require a depth of at least 24". Bell out bottom of holes.

## Step 4: Cut posts and install exterior u-channel

Ensure all posts are the correct height, and cut any posts down as needed. Secure external u-channels to a flush side of each post where needed, using at least 3 self-tapping screws for each u-channel. Ensure not to drill directly into the center beam. Corner and T posts will each need one u-channel, and steel gate posts will need one u-channel for each side supporting a non-gate fence section.

### Step 5.1: Position posts

Insert each post in its hole and fill the hole around the post with concrete mix up to 2"-4" below grade. Tamp concrete to reduce air pockets, and level and square the post.

### Step 5.2: Verify post spacing

Before fully allowing posts to set, slide a rail or Breeze picket of the correct section length into the post channels on either side to ensure the posts are set to the correct spacing. Ensure that no less than ¼" of the rail or Breeze picket enters the channel on either side. Spacing between gate posts should be approximately 2" more than the width of the gate itself.

### Step 6: Install bottom rail or picket

**Option 1:** Affix a 2-hole winged bracket to a post with 2 screws, placing the top of the bracket no higher than the space desired between the bottom rail or picket and the ground. Slide the bottom rail or picket into the channel to rest on the bracket.

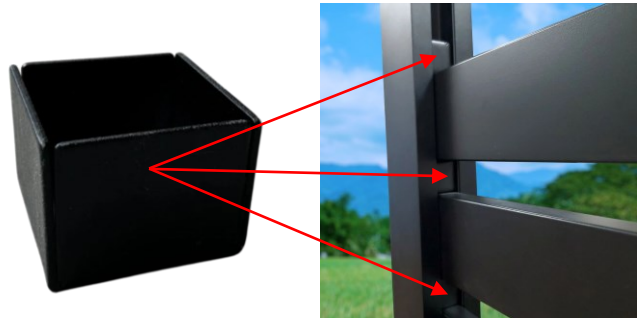
**Option 2:** Screw bottom rail or picket directly into the post at the desired height, avoiding center beam.



## Step 7: Add remaining fill material and top picket or rail

Once the bottom picket (for Avimore Breeze) or the bottom rail (for Avimore Modern) is secured, the rest of the material should slide easily into the post channel above it.

Slide picket spacers into channel between pickets for Breeze Semi-Privacy and Mixed Privacy. Breeze Privacy will not require spacers.



For Modern Horizontal, slide pickets in one at a time with the tongue facing up. For Modern Vertical, insert the first picket into the channel with the tongue facing out, and then add other pickets. Depending on your chosen dimensions, you may need to rip cut one of the pickets to fit.



Slide top Breeze picket or pocket rail into channel and secure in the same way as the bottom one to reduce fill movement.

## Step 8: Install gates

Ensure that the space between gate posts is approximately 2" more than the width of the gate itself. If spacing is too narrow, the gate can be disassembled to cut the rails and pickets to a smaller size.

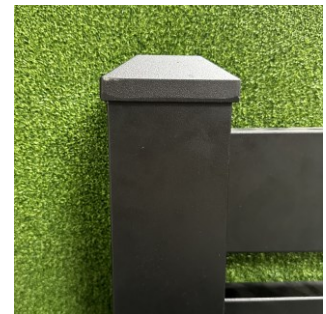
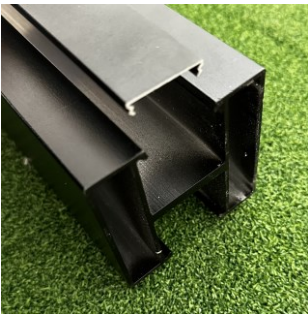
Determine which post to hinge the gate from – NEVER hinge a gate from a concrete-mounted post – and which direction the gate post will swing. Attach hinges to gate frame in line with desired orientation.

Determine desired gate alignment and block up gate square with fence. Attach hinges to gate post and then install latch on opposite side from hinges. Install cable kit if applicable. Adjust tension in hinges as preferred.





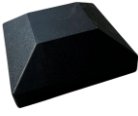




## Step 9: Install gap fillers and post caps

Cut gap fillers to proper height to install in any unused internal post channels on corner and end posts.




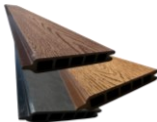





Install caps on posts by pressing them down over the top of each post.



## Appendix – Avimore Parts List

Part	Picture	Details	Used with:
<b>Aluminum Channeled Post</b>		<ul style="list-style-type: none"> <li>• Max 12' Length</li> <li>• 3"x3" Outer Dim.</li> <li>• 1<sup>3</sup>/<sub>16</sub>"x1<sup>7</sup>/<sub>16</sub>" Channel</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Steel Gate Post</b>		<ul style="list-style-type: none"> <li>• Max 12' Length</li> <li>• 3"x3" Outer Dim.</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Gap Filler</b>		<ul style="list-style-type: none"> <li>• Max 80" Length</li> <li>• 1" Width</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>U-Channel</b>		<ul style="list-style-type: none"> <li>• Max 94" Length</li> <li>• 1.25"x1.25" Outer Dimensions</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>External Post Cap</b>		<ul style="list-style-type: none"> <li>• Fits 3"x3" Posts</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Steel Ground Sleeve</b>		<ul style="list-style-type: none"> <li>• Fits 3"x3" Posts</li> <li>• 24" Deep</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Post Mount Plate</b>		<ul style="list-style-type: none"> <li>• 4<sup>11</sup>/<sub>16</sub>"x4<sup>11</sup>/<sub>16</sub>"</li> <li>• Pre-plated posts available up to 8'</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Avimore Modern Pocket Rail</b>		<ul style="list-style-type: none"> <li>• 64.5", 72", or 96"</li> <li>• 1"x2.75" exterior</li> <li>• 7/8"x1.25" channel</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Modern</li> </ul>
<b>2-Hole Rail Bracket</b>		<ul style="list-style-type: none"> <li>• Fits channeled post above/below Rails or Breeze Pickets</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>

## Appendix – Avimore Parts List

Part	Picture	Details	Used with:
<b>1-Hole U-Channel Bracket</b>		<ul style="list-style-type: none"> <li>• 0.5", 1", or 1<math>\frac{3}{8}</math>"</li> <li>• Spaces Breeze Pickets in U-Channel</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> </ul>
<b>Avimore Breeze Picket</b>		<ul style="list-style-type: none"> <li>• 72" or 96" Length</li> <li>• 1"x3.5" Profile</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> </ul>
<b>Picket Spacer</b>		<ul style="list-style-type: none"> <li>• 0.5", 1", or 1<math>\frac{3}{8}</math>"</li> <li>• Spaces pickets in Post Channel</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> </ul>
<b>Avimore Elite Composite Slat</b>		<ul style="list-style-type: none"> <li>• <math>\frac{7}{8}</math>"x5.5"x64"</li> <li>• Tongue &amp; Groove</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Modern Elite</li> </ul>
<b>Vinyl Fill Slat</b>		<ul style="list-style-type: none"> <li>• <math>\frac{7}{8}</math>"x6"x64"</li> <li>• Tongue &amp; Groove</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Modern w/ Vinyl Fill</li> </ul>
<b>Vinyl Slat Insert</b>		<ul style="list-style-type: none"> <li>• <math>\frac{7}{8}</math>"x0.5"x64"</li> <li>• Aluminum Insert</li> <li>• 1 per 4 vinyl slats</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Modern w/ Vinyl Fill</li> </ul>
<b>Avimore Naturals Cedar Slat</b>		<ul style="list-style-type: none"> <li>• <math>\frac{7}{8}</math>"x5"x64"</li> <li>• Tongue &amp; Groove</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Modern Naturals</li> </ul>
<b>Avimore Gate Upright</b>		<ul style="list-style-type: none"> <li>• 72' or 96" Length</li> <li>• 2"x3" External Dim.</li> <li>• 1"x1<math>\frac{15}{16}</math>" Int. Dim</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>
<b>Upright Cap</b>		<ul style="list-style-type: none"> <li>• Fits 2"x3" Uprights</li> </ul>	<ul style="list-style-type: none"> <li>• Avimore Breeze</li> <li>• Avimore Modern</li> </ul>



[alliancefencesupply.com](http://alliancefencesupply.com)

(+1) 801-852-8542