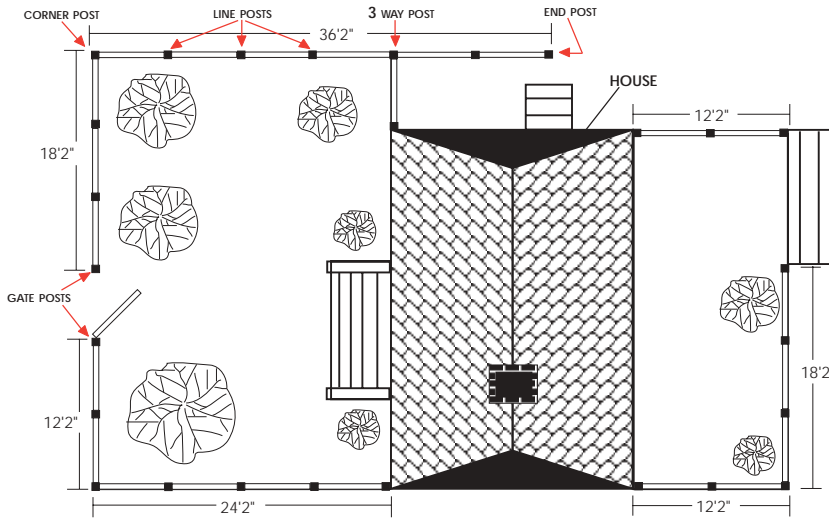


A Quick Reference Guide to Planning an Installation

Plan and Measure Your Aluminum Fence Layout

Before installing your fence, draw a plan to scale on a piece of graph paper as shown in the example. This drawing will help you estimate materials and plan the location of corners and gates. Show the location of the house, garage, driveway, trees, property lines, sidewalks and other elements of your landscape. Measure accurately with a hundred foot tape measure.



STEP-by-STEP

1. Layout the area to be fenced
2. Measure & plan area
3. Determine materials needed
4. Order necessary items
5. You are ready for installation!

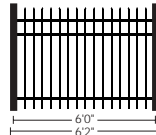
Planning:

- Measure carefully, then draw your fence plan on a planning grid.
- Check the following:
 - ✓ Local building codes
 - ✓ Zoning requirements
 - ✓ Home Owner Assoc.
 - ✓ Utility lines
- Select a fencing style that is practical and complementary to the landscape.
- Order the materials.

MEASURING TIPS

When planning, remember that each installed 6' fence section measures 6' from the **center** of the first post to the **center** of the second post. An installed fence section measures 6'2" from outer edge of the first post to the outer edge of the next post.

(Therefore, one installed fence section would measure 6'2", two sections measure 12'2", three sections measure 18'2", etc. (If the fence goes up or down a slope, these dimensions may vary slightly.)



The opening left for gates should be the width of the gate ordered. For example: a 36" opening should be left for a 36" gate. *The gate is actually 35" and is made to fit a 36" opening.*

TOOLS & MATERIALS YOU WILL NEED

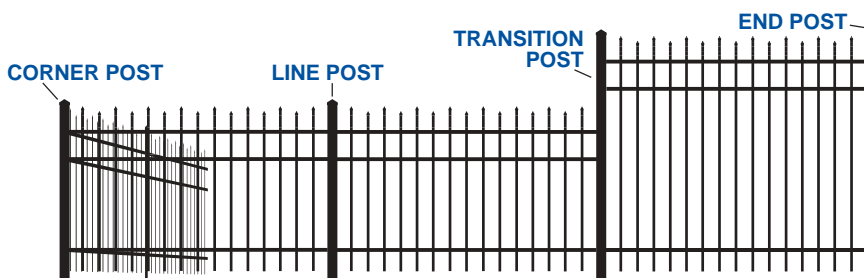
- | | |
|---|----------------------------|
| 1. Post-hole digger | 8. Mason's trowel |
| 2. Shovel | 9. Hammer |
| 3. Carpenters level | 10. String or chalk line |
| 4. Saw | 11. Wheelbarrow for cement |
| 5. Tape measure | 12. Cement |
| 6. Screwdriver (electric) & hexhead bit | 13. Wooden Stakes |
| 7. Sledge hammer | 14. Gravel |

Determine Your Needs

After you have carefully measured the installation area, count each 6' wide fence section, *you may want to allow for extra fence sections to compensate for measurements not divisible by 6 ft.*

Next count the number of Line Posts, Corner Posts, End Posts and the Gate Posts. Remember to allow an opening for Gate width.

You are now ready to prepare for installation.



PLEASE NOTE: It is the Responsibility of the Installer to Comply with Relevant Local Building Codes. Most styles can be customized to meet specific building codes. Be sure to specify codes when ordering. **IMPORTANT! CALL BEFORE YOU DIG!** Electric, gas, water and many other lines crisscross most urban areas. Even rural areas have heavy concentrations of underground utility lines. To avoid hitting any of these lines (some of which are only inches below the ground) call your local utility companies 2-3 days before you dig. (Most states have a one-call number.)

Installing Your Aluminum Fence

Setting the Fence Sections



1. Dig Hole

Start by setting the corner post. Use a posthole digger or a shovel to dig each hole approximately 12" below frost line.*



2. Set Posts

Set the post in the hole. Add a shovel full of gravel to each corner of the post hole for good drainage.



3. Attach Fence

Attach the fence section to the post by sliding a section into the pre-punched post hole. Fasten using the self-drilling screws (*provided*).

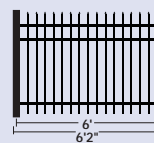
NOTE: The fence should be installed so that the bottom of the pickets are 2" to 3" above the ground surface level. All of the screws should be on the same side of the post. (*It is recommended that the screws are on the inside of the fence.*)

Measuring & Layout Example



A Determine corner locations for the fence and drive stakes into the ground to mark their positions.

B Run a string or chalk line between corner stakes. The stakes should be tall enough so that the line does not touch the ground.



REMINDER! MEASURING TIPS

When planning, remember that each installed 6' fence section measures 6' from the center of the first post to the center of the second post.

An installed fence section measures 6'2" from outer edge of the first post to the outer edge of the next post. Therefore, one installed fence section would measure 6'2"; two sections measure 12'2"; three sections measure 18'2", etc.

(If the fence goes up or down a hill, these dimensions may vary slightly.)

Installing Your Aluminum Fence continued

Setting the Fence Sections cont'd



4. Pour Concrete

Pour concrete around the post. Carefully stamp around each post until concrete is approximately 2" below ground level.



5. Level

Before the cement hardens, level the posts and fence sections, making sure that the height above ground is plumb.



6. Assemble

While the cement is setting, assemble the next fence section to its post. Set it in place, cement and level as before.



7. Repeat...

Continue installing one post and one fence section at a time, setting each post and fence section as you go.

POST HEIGHTS

When ordering posts, order them the same height as your fence sections. For example, for a 4' high fence order the 4' Posts.

Posts are furnished in the proper length for the fence height for in ground installations. They should only be cut for a surface mount installation.

- Posts for 1'6" fence heights are 30" long
- Posts for 3'0" fence heights are 58" long
- Posts for 3'6" fence heights are 64" long
- Posts for 4'0" fence heights are 70" long
- Posts for 4'6" fence heights are 76" long
- Posts for 5'0" fence heights are 88" long
- Posts for 6'0" fence heights are 106" long
- Posts for 7'0" fence heights are 116" long
- Posts for 8'0" fence heights are 130" long

THE FROST LINE

We recommend posts be installed 12" below frost lines. Cement the post below the frost line if the post is not long enough to go below the frost line.

The **Frost Line** is the lowest depth to which the ground freezes in winter. This depth varies from region to region. *Your local municipality can tell you what it is for your area.*

When ground water freezes it expands and pushes the ground up, a process called **Frost Heave**. This causes the lumps that appear in the lawn after a hard freeze.

If you provide drainage and dig the post holes at least 12" below the frost line, you can keep frost heave from affecting the posts.

POST TIPS

- Be certain that all corner posts are set square to the position of the fence.
- If you have a lot of posts to set, use a power auger to dig the post holes.
- Mix the concrete on the dry side to obtain a quick set.

Special Situations (during planning and installation)

Fence Attached to Walls or Pillars

(If the pillars do not exist and are to be built, it is best to make them a multiple of 6' apart.)

*  marks the locations of the Wall Attachment Fittings on all illustrations.

1 Measure the distance between the pillars. (See Figure A.)

2 If the distance is 6' or less you will need one six foot wide fence section and one package of *wall fittings. The fence will need to be cut to fit between the pillars exactly.

To maintain equal spindle spacing we recommend cutting equal amounts from both ends of the fence section.

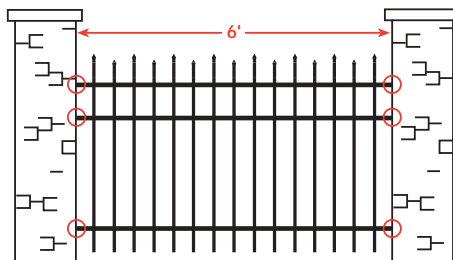


Figure A

3 If the distance to be fenced is over 6' you will need one set of Wall Fittings, two 6' long fence sections and one line post for each additional 6' or fraction to be fenced. (See Figure B).

If the area under the fence is grass or earth the post will have to be set in cement as shown.

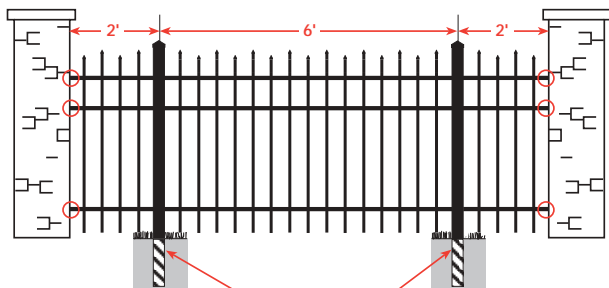


Figure B

4 If the area directly under the fence is brick, wood or concrete you will need Fence Post Bases with which to fasten down the post. (See Figure C).

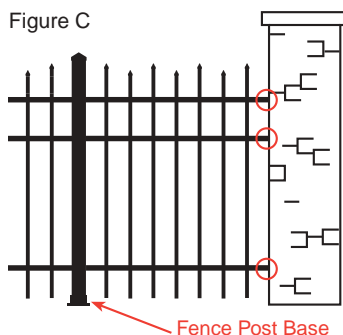
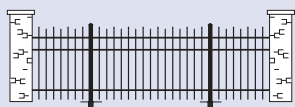


Figure C

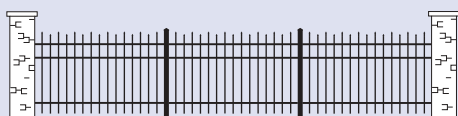
CUTTING SECTIONS TO FIT ODD MEASUREMENTS



Short End Sections (Cut 2 sections)



Short Center Section (Cut 1 section)



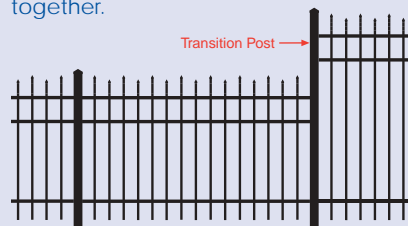
3 Equal Lengths (Cut all sections)

SPECIAL SITUATIONS

Here are suggested solutions to various situations which may arise with your fence installation.

SITUATION: CHANGING HEIGHTS

There may be occasions where you will want to put 2 different fence heights together.



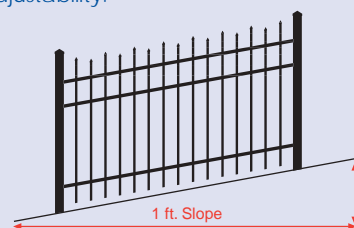
SOLUTION: "Special Order" a "Transition Post"

HOW TO ORDER:

1. Specify Line Post or Corner Post
2. Specify the two heights needed
3. If a Corner Post—specify direction of corner

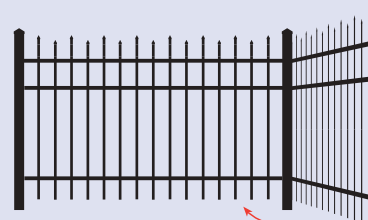
SITUATION: HILLSIDES & SLOPES

All standard fence sections adjust to hills as steep as 1' in a 6' run. If greater adjustment is required special sections must be ordered with greater adjustability.



SOLUTION: If slope is greater than 1' in 6' order special sections which can be adjusted up to 45°.

SITUATION: NON - "RIGHT ANGLE" CORNERS



SOLUTION: **120° Angle**
Install the corner post at an angle using a swivel attachment fitting.

Aluminum Fence (Gates)

Multi-fit Gate Hinge

The vertical placement of the Multi-fit Gate Hinge depends on the preferences of the installer. (See Diagram A. for the suggested placement.)

