

INSTALLATION MANUAL

TOOLS YOU WILL FIND USEFUL:

- STRING OR CHALK LINES AND STAKES
- TAPE MEASURE
- POST HOLE DIGGER
- WHEELBARROW, SHOVEL, AND HOW TO MIX AND TRANSPORT CONCRETE
- CARPENTERS LEVEL
- HACKSAW
- RUBBER Mallet

NECESSARY REMINDERS- PRE-INSTALLATION:

1. FENCE FOOTINGS MUST NOT EXCEED LEGALLY ESTABLISHED PROPERTY LINES. Please consult real estate agents line plot or local surveyors. **See figure 1** for guide string instruction (once property line is established.) This will determine fence location.
2. CHECK WITH LOCAL UTILITY COMPANIES FOR LOCATIONS OF UNDERGROUND CABLES OR PIPE LINES.
3. CHECK LOCAL CODES FOR SPECIFICATIONS IN FENCING, IF THEY APPLY.

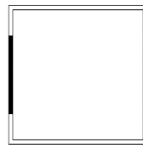
4. GATES AND FENCE SHOULD BE INSTALLED WHERE THE BOTTOM OF THE PICKETS ARE AT LEAST 3" ABOVE GROUND LEVEL FOR EASY LAWN MAINTENANCE.

5. IT IS RECOMMENDED TO INSTALL FENCE SECTIONS WITH SCREWS FACING INSIDE TO INSURE THE OUTSIDE CONTINUOUS BEAUTY OF THE FENCE.

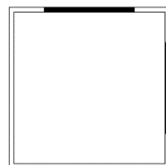
UNPACKING POST SECTIONS:

SPECRAIL's aluminum fence system is linked by four (4) post types as follow:

1. LINE POST



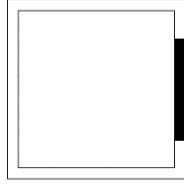
2. CORNER POST



3. END POST



4. GATE POST



NOTE: THE GATE POSTS ARE TWICE AS THICK AS REGULAR POSTS

Lay out the posts in each type for each area for installation. At this point you use a rubber mallet to drive post caps onto the post.

Exercise caution to not damage post, or finish.

You are now ready to install your SPECRAIL fence.

I. INSTALLING SPECRAIL ALUMINUM FENCING:

(POST) 1. DIGGING POST HOLES:

- a. A 4' post requires an 8" deep hole = .3 CF of concrete.
- b. A 5' post requires a 24" deep hole = .4 CF of concrete
- c. A 6' fence post requires a 30" deep hole = .5 CF of concrete

Mix the concrete. It is recommended that it be fairly dry to allow additional support to fence sections during installation.

(GATE) 2. IF POSSIBLE, BEGIN INSTALLING YOUR FENCE WITH A GATE.

Be sure that the gate is centered properly over the walkway/driveway. The width of the gate would correspond to space needed between posts. i.e. a 48" wide gate fits a 48" wide opening or two 5' gates for a driveway fit a 10' wide opening.

See figure 2.

*Exercise caution when settling posts for slot locations

(POST) 3. SET POSTS AND FILL CONCRETE AS RECOMMENDED ABOVE.
It is recommended to fill hole with concrete up to 2'' under surface level.

(GATE) 4. ATTACH EACH GATE AFTER CONCRETE HAS HARDENED.
Be sure to verify that the posts and gate are level, and correct distance apart.

(POST) 5. WHEN A GATE POST INSTALLATION IS COMPLETE, YOU MAY NOW PROCEED TO INSTALLATION OF STRAIGHT RUN FENCE.
Starting from the center of the gate post, measure 5' 11 ½'' for the center of the hole for your first line post. Continue process along run to be fenced.

(FENCE) 6. INSTALL POST INTO HOLE AS DESCRIBED ABOVE, AND INSERT FENCE IN SLOT OF POST (PRE-MACHINED.)
Pour concrete into holes. Be sure to check fence to be level before concrete hardens. Continue this process for remaining full sections of fence. For the most aesthetic appearance of SPECRAIL fence, we recommend you to check the level and alignment after every four (4) sections of fence installed.

(FENCE) 7. FOR AREAS WHERE PRE-FABRICATED 6' SECTIONS WILL NOT FIT IT WILL BE REQUIRED TO CUT THE SECTION WITH A HACKSAW.
Because you will be cutting pre-cut notches off ends of the stringer, it will be necessary to cut a 1/8'' x 5/8'' notch so you can fasten section to post. Refer to any other pre- assembled section for detail of necessary cuts. *See figure 3.*

(FENCE) 8. CORNER SECTIONS WILL REQUIRE A 45 DEGREE MITER ON STRINGER (FENCE RAIL) TO FASTEN INTO POST. *See figure 3.*

(SLOPE) 9. SPECRAIL FENCE CAN FOLLOW THE CONTOUR OF THE GROUND CONDITION BECAUSE OF ITS ABILITY TO RAKE.
You may raise or lower the post in steep conditions.

II. INSTALLING SPECRAIL GATES AND HARDWARE:

(HINGE) 1. SPACING BETWEEN GATE POSTS SHOULD ALLOW ½" OF SPACE BETWEEN GATE AND POSTS.

This spacing is necessary for proper operation of gate. To prevent the gate from sagging, install the hinges on the side of the gate where the diagonal brace is at the bottom. *See figure 2.*

2. IT IS IMPORTANT NOT TO MOUNT THE HINGES ON THE GATE POST HIGHER THAN THE P-TOP HORIZONTAL RAIL OF THE FENCE OR LOWER THAN THE BOTTOM HORIZONTAL RAIL OF THE FENCE.

The hinge pins must be in line with each other or the gate will not operate properly.

3. POSITION THE HINGES ON THE GATE POST AND DRILL HOLES USING A #32 DRILL BIT.

Fasten each hinge by using the self-tapping screws provided.

- 4. LOCATE THE CURRENT POSITION OF THE HINGE ON THE GATE LEAF, (Remember, note 1 & 2 above) AND FASTEN GATE WITH THE SCREWS PROVIDED.**
- 5. IF YOU HAVE A DOUBLE DRIVE GATE UNIT, BE SURE TO INSTALL A LEFT AND RIGHT HAND GATE AS SHOWN IN *figure 2*.**
- 6. INSTALL LATCH BOX AND CATCH USING SCREWS WHICH ARE PROVIDED.**

When positioned properly, the latch box tongue and catch eyelet will allow for locking with optional padlock.
- 7. IF YOU HAVE A DOUBLE DRIVE GATE UNIT, INSTALL DROP ROD ON INSIDE OF GATE OPPOSITE THE LEAF WHICH HAS THE LATCH BOX ATTACHED.**

Drop rod catch must be installed high enough so that rod will not drag on the ground while gate is in operation.

III. FINAL INSTALLATION:

- 1. COMPLETE YOUR INSTALLATION AFTER ALL SECTIONS ARE FIRMLY IN PLACE, AND THE CONCRETE HAS HARDENED.**

Drill holes into horizontal rails through the posts and fasten rails with #8 x 1" stainless steel tek screws that are provided.
- 2. REPLACE DIRT AND GRASS AROUND ALL POSTS FOR A NEATER APPEARANCE.**

YOUR FENCE INSTALLATION IS NOW COMPLETE!

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FIGURE 1:

LAYOUT AND PLANNING

Note:

For easier installation, we recommend at least two people install the fence.

Important:

Local municipalities may require a setback from property line to fence line, otherwise, it is important to find out all the requirements before installing your fence.

The posts should remain 1/8" away from the string.

FIGURE 2:

Important:

Make certain that the horizontal rails of the gate are the same level as the horizontal rails of the fence.

FIGURE 3:

Note:

If a fence section is under 6' long, a hacksaw is needed to cut the fence to the proper length. Also, a 1/8" x 5/8" notch is required for the newly cut ends.

HORIZONTAL RAIL:

Important:

In order for two (2) sections of fence to fit into a corner post, a 45 degree miter on the fence rail must be cut.

CORNER POST:
(top view)