Vinyl Fence Installation Guideline

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Fence System Components

Line Post

Corner Post

Section

Top Rail

Picket

Bottom Rail

End/Gate Post

Gate

Exterior Flat

Interior Flat

Gothic

Exterior Ball

New England

Caps

DROP PIN

1" ON EACH SIDE FOR HINGE

OPPOSITE GATE

ADJUSTABLE NYLON HINGE END/GATE POST

1/4" FOR LATCH

LOCK LATCH

1" ON EACH SIDE FOR HINGE

DROP PIN
Tools and Materials

Getting Started
• Site plans and permits
• Measuring tape
• Hammer
• Wooden stakes
• String line
• Spray paint for hole centers for post and gate spacing
• Wooden spacer bar for post and gate spacing

Assembling Fence/Gates
• Drop cloth
• Hacksaw, circular saw or chop saw with masonry blade
• Square
• #3 square drive bit
• Phillips #2 screwdriver
• Drill and drill bits
  - 1/8" for #8 screws
  - 1/4" for bullet clips and drain holes
  - 11/64" for gate assembly
  - 5/32" for gate assembly if using aluminum insert
  - 3/8" for lock rings
• 1/2" deep socket (or nut driver) for traditional picket

Digging Holes
• Post hole digging tools
  - Shovel
  - Post hole digger
  - 10" auger for 4x4 posts
  - 12" auger for 5x5 posts

Installing Post
• Wheelbarrow
• Concrete mixing tools
• Short length of wood, 2x4 for tamping concrete
• Garden hose
• Level
• Template kit with router
• Spiral saw

Installing Bottom Rail
• Leveling blocks
• Shim stock
• Duct tape to seal rail ends

Installing Gate(s)
• Wrench
  - 7/16" for hinge nuts
• Flat screwdriver to activate hinge spring

Filling Post with Concrete
• Rubber mallet to tamp post
• Funnel for filling post
• Ladder for high fences

Cleaning Up
• Abrasive-type pad
• Bucket and sponge

Additional Tools - Installing on Concrete
• 1/2" masonry drill
• Core drill

Additional Tools - EZ Set Brackets
• 7/16" wrench
Concrete Requirements

All posts require concrete to be poured around the post base. All hinge and latch posts require concrete to fill the post inside, enough to cover the rebar and gate hardware (or insertion of the aluminum gate post stiffener).

- Avoid “soupy” concrete mix as it will make concrete weak

Concrete Usage for Posts

<table>
<thead>
<tr>
<th>Post Size</th>
<th>Fence Height</th>
<th>End Line or Corner Posts</th>
<th>End Posts Filled with Concrete</th>
<th>Gate Posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x4</td>
<td>3'</td>
<td>100 lbs</td>
<td>145 lbs</td>
<td>160 lbs</td>
</tr>
<tr>
<td>4x4</td>
<td>4'</td>
<td>130 lbs</td>
<td>155 lbs</td>
<td>175 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>5'</td>
<td>140 lbs</td>
<td>235 lbs</td>
<td>270 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>6'</td>
<td>140 lbs</td>
<td>240 lbs</td>
<td>285 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>2 rail</td>
<td>140 lbs</td>
<td>210 lbs</td>
<td>240 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>3 rail</td>
<td>140 lbs</td>
<td>230 lbs</td>
<td>260 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>4 rail</td>
<td>140 lbs</td>
<td>250 lbs</td>
<td>280 lbs</td>
</tr>
</tbody>
</table>

Note: Determine total pounds of concrete required based on number of posts required. Divide by 60 or 80 lb. bag.

Figures based on 4x4 hole=10", 5x5 hole=12", both 30" deep.

- Check local codes for frost line depth and regulations

Solidify Posts

Gate hinge and latch posts as well as end posts can be solidified by using an aluminum gate post stiffener inside each post or by filling post with concrete and rebar.*

Rebar Separator Clips (for use with rebar and concrete method)

Use 2 clips for each post. Position clips on the rebar approximately 6" down from top and 6" up from bottom. Clips are located in gate hardware box.

Alternative Fence Installations

For fence systems on concrete, use steel posts. On concrete applications fence may be installed with 1-5/8" (4 x 4 post) or 1-7/8" (5 x 5 post) galvanized steel post set in hydraulic cement. EZ Set bracket bolts to post as a spacer.

For wall mounting, use wall mount brackets.

EZ Set Bracket Installation Instructions on Concrete

- Core drill hole into concrete
- Minimum 4' deep
- Post centers will remain the same as normal installation
- Rails will have to be cut down to fit between steel post
- Fill hole with hydraulic cement. Insert steel post
  - For 4" vinyl post, set 1 5/8" OD steel post
  - For 5" vinyl post, set 1-7/8" OD steel post
- Steel post should go at least halfway up the vinyl post
- Put EZ Set brackets together and slide over steel post
- Place one bracket on steel post below where the routed hole will be on your vinyl post
- Place other bracket just below the top of your steel post
- Slide vinyl post over steel post with EZ Set brackets

Care of the Product

- Place vinyl fence components on a non-abrasive surface, such as a drop cloth, to avoid scratching
- Protect components during transportation to your installation site to avoid damage
- Avoid excessive force when assembling components
- Avoid overtightening screws
- Clean vinyl fence with mild detergent and a plastic scouring pad. For more stubborn stains, use a cleanser such as Soft Scrub® or cleaning solution listed on warranty
- Concrete is easily washed off when wet, but can also be removed when dry

Gates

- Specific gate hardware instructions included with individual components
- Gate(s) must be assembled prior to fence to accurately establish space between hinge and latch posts and height of fence
- Gate requires 2' clearance under bottom rail on level ground
- When building gates in the field, ensure that 1/4' drain holes are drilled in bottom rail
- Determine gate swing direction to assist in ground clearance and positioning
- Steel channel not required in bottom rail of gate

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Traditional Picket Fence – Cape Cod, Yorkshire

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30" deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
     - Hole size for 4 x 4 posts = approximately 10’
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert rail into post
     - Note: Pickets will attach to rail on the side with the small (1/4") holes
   • Insert lock ring in end of rail
   • Depress lock ring tabs and insert rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Pickets and Rails
   • Insert top rail in post
   • Depress lock ring tabs, insert top rail in post

8. Install Pickets
   • For field assembly, insert hex washer head screw through large (3/4") pre-drilled hole in top rail
   • Align pre-drilled hole in picket, tighten with 1/2” deep socket wrench or nut driver with clutchdrill (do not overtighten)
   • Repeat for bottom rail
   • Insert (3/4") hole plug into hole in back side of rail

9. Secure Rails
   • Square pickets and rails
   • Check for even picket spacing on each end of rail
   • Top rail may be secured inside post with a #8 x 3/4” screw on each end

10. Hang Gate/Install Hardware
    • For complete details, see gate installation instructions in hardware box
    • Position gate between posts
    • Allow 1” gap for hinge and 3/4’ for latch and gate swing
    • Block up gate to square with fence; rails should be level
    • Gate hardware must be secured to two sides of the post

11. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts with open end facing routed hole
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post to hold in place
         - Insert post into ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar*
         - Use two pieces of 1/2’ rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

12. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Traditional Picket Fence

Includes: Cape Cod, Yorkshire

POST HOLES
4x4 POSTS = 10"
5x5 POSTS = 12"

DIG HOLES 30" DEEP OR TO FROST LINE

LOCK TOP RAIL IN POST WITH #8 X 3/4" SCREW

ATTACH TRADITIONAL PICKETS TO RAILS WITH 5/16" X 3/4" HEX WASHER HEAD SCREWS. TIGHTEN WITH 1/2" NUT DRIVER. INSERT PLUG-IN RAIL.

ALLOW CLEARANCE FOR GATE SWING

ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM

POST SUPPORT OPTIONS:
INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION

REBAR SEPARATOR CLIP
USE (2) PIECES OF 1/2" REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSING CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS.
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30’ deep or to frost line
     - Hole size for 4 x 4 posts = approximately 10”
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Check bottom rail for drain holes
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in end of rail
   • Depress lock ring tabs and insert rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Pickets
   • Insert top rail in post with large holes facing down
   • Insert pickets through holes in top rail
   • Insert pickets in bottom rail. Pickets are crimped to hold in rail

8. Secure Rails
   • Depress lock ring tabs, insert top rail in post
   • Square pickets and rails
   • Check for even picket spacing on each end of rail
   • Top rail may be secured inside post with a #8 x 3/4’ screw on each end

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1” gap for hinge and 3/4” for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts with open end facing routed hole
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post to hold in place
         - Insert post into ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar*
         - Use two pieces of 1/2” rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4’ screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Traditional Picket Fence

Includes: Danbury (straight & concave)
Danbury with Select Cedar Texture (straight & concave)
Rothbury (straight & concave)

POST HOLES
4x4 POSTS = 10’

ALLOW CLEARANCE FOR GATE SWING
ALLOW 1’ FOR HINGE AND 3/4” FOR LATCH SYSTEM

POST SUPPORT OPTIONS:

LOCK TOP RAIL IN POST WITH #8 X 3/4” SCREW

POST HOLE OPTIONS:

DIG HOLES 30’ DEEP OR TO FROST LINE

4 x 4 POST CENTERS 3’ PICKET = 96’

BOTTOM RAIL
PICKETS

INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION

USE (2) PIECES OF 1/2” REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSING CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS
1. Getting Started

- Be sure to call underground (811) prior to digging
- Assemble gates (if necessary) and decide where they will be located
- Stake out the fence line
- Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
- Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes

- Dig holes 30" deep or to frost line
  - Hole size for 5 x 5 posts = approximately 12”
  - Hole size for 4 x 4 posts = approximately 10”
- Clean holes and check for straight walls

3. Install First Post

- Insert post in hole
- Determine rough height
- Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
- Tamp concrete in hole to eliminate air pockets
- Level and square post

4. Install Bottom Rail

- Check bottom rail for drain holes
- Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
- Insert lock ring in end of rail
- Depress lock ring tabs and insert rail in post
- Tabs will recoil to hold rail in post

5. Install Second Post

- Insert second post in hole
- Insert bottom rail in post
- Insert block under bottom rail to position at correct fence height
- Fill hole around second post with concrete mix
- Tamp, level and square fence
- Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure

- Level and square fence
- To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
- Never strike the PVC post without a wood support

7. Install Pickets and Rails

- Insert mid-rail (if applicable) in post with large holes facing down
- Insert pickets through holes in mid-rail
- Insert pickets in bottom rail. Temporarily remove mid-rail ends from post. Insert top rail over pickets
- Insert mid-rail and top rail in post

8. Secure Rails

- Depress lock ring tabs, insert top rail in post
- Square pickets and rails
- Check for even picket spacing on each end of rail
- Secure rail inside post with a #8 x 3/4” screw (do this on both ends)
- Level mid-rail, secure rail to pickets with (2) #8 x 1-1/2” screws, snap caps and washers evenly spaced along rail

9. Hang Gate/Install Hardware

- For complete details, see gate installation instructions in hardware box
- Position gate between posts
- Allow 1” gap for hinge and 3/4” for latch and gate swing
- Block up gate to square with fence; rails should be level
- Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts

- It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
  A. Aluminum gate post stiffener
     - Slide aluminum gate stiffener inside hinge, latch or end posts with open end facing routed hole
     - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post to hold in place
     - Insert post into ground
     - Fill hole with concrete around outside of post
  B. Concrete and rebar*
     - Use two pieces of 1/2” rebar in each hinge, latch and end post
     - Rebar should extend from the bottom of the hole to approximately 12’ from the top of the post
     - Hold rebar in opposite corners of post with rebar separator clips
     - Fill post with concrete mix to cover rebar and hardware fasteners
     - Tamp post with a rubber mallet to eliminate air pockets
     - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps

- Install post caps
- Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Contemporary Picket Fence

Includes: Baron, Baron with Select Cedar Texture, Countess, Monarch, Princeton, Victorian

- Dig holes 30" deep or to frost line
- 4x4 posts = 10"
- 5x5 posts = 12"
- Allow clearance for gate swing
- Allow 1" for hinge and 3/4" for latch system
- Post centers:
  - 4x4 posts = 96"
  - 5x5 posts = 97"
- Lock top rail in post with #8 x 3/4" screw
- Secure mid-rail to pickets with (2) #8 x 1-1/2" screws, caps and washers
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips

POST SUPPORT OPTIONS:

1/2" REBAR
Classic Fence – Manchester (straight & concave), Canterbury (straight & swoop)

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30" deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12"
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in each end of rail
   • Depress lock ring tabs and insert rail in post. Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Rails & Pickets
   • Middle and upper rails are routed with larger holes on the bottom for ease of installation and racking
   • For Canterbury – Install mid-rail. Depress lock ring and insert rail into post. Insert short pickets into every second hole starting with the end hole. Pickets are factory crimped to hold in rail. Install top rail, and insert longer pickets into remaining holes
   • For Manchester - Depress lock ring and insert top rail in post. Pickets are factory crimped to hold in rail. Insert pickets through rail into bottom rail
   • For Manchester Concave - 8 longer pickets are supplied for in-field design and cutting
   • Field cut pickets should be cut to size and then crimped, or drill a 1/4" hole in one side, 1" from the bottom
   • Install bullet clip in hole and insert picket into rail
   • For Canterbury Swoop - All long pickets need to be field cut. Measure from cap and cut off crimped end. Picket lengths are:

8. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1" gap for hinge and 3/4" for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

9. Solidify Gate Posts
   • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
     A. Aluminum gate post stiffener
        - Slide aluminum gate stiffener inside hinge, latch or end posts with open end facing routed hole
        - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
        - Insert post into the ground
        - Fill hole with concrete mix to cover rebar and hardware fasteners
        - Tamp post with a rubber mallet to eliminate air pockets
        - Leave gate on blocks for 72 hours to allow concrete to set
     B. Concrete and rebar*
        - Use two pieces of 1/2” rebar in each hinge, latch and end post
        - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
        - Hold rebar in opposite corners of post with rebar separator clips
        - Fill post with concrete mix to cover rebar and hardware fasteners
        - Tamp post with a rubber mallet to eliminate air pockets
        - Leave gate on blocks for 72 hours to allow concrete to set

10. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 1-1/2" screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Includes: Manchester (straight & concave)  
Canterbury (straight & swoop)
1. Getting Started
- Be sure to call underground (811) prior to digging
- Assemble gates (if necessary) and decide where they will be located
- Stake out the fence line
- Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
- Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
- Dig holes 30" deep or to frost line
  - Hole size for 5 x 5 posts = approximately 12"
- Clean holes and check for straight walls

3. Install First Post
- Insert post in hole
- Determine rough height
- Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
- Tamp concrete in hole to eliminate air pockets
- Level and square post

4. Install Bottom Rail
- Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
- Depress bullet clip and insert bottom rail in post; clip will drop down to hold rail in post

5. Install Second Post
- Insert second post in hole
- Insert bottom rail in post
- Insert block under bottom rail to position at correct fence height
- Fill hole around second post with concrete mix
- Tamp, level and square fence
- Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
- Level and square fence
- To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
- Never strike the PVC post without a wood support

7. Install Mid-Rail
- Insert mid-rail in first post with larger routed holes facing in the down position
- Insert into second post (Note: This rail floats in post. No bullet clips are required)

8. Install Pickets and Top Rail
- Insert all pickets through mid-rail into bottom rail
- Temporarily remove mid-rail ends from post and pull the section forward
- Insert the top rail over the pickets starting at one end
- Insert the mid-rail and the top rail back into the posts
- Secure top rail inside post with a #8 x 3/4" screw

9. Hang Gate/Install Hardware
- For complete details, see gate installation instructions in hardware box
- Position gate between posts
- Allow 1" gap for the hinge and 3/4" for latch and gate swing
- Block up gate to square with fence; rails should be level
- Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
- It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
  A. Aluminum gate post stiffener
     - Slide aluminum gate stiffener inside hinge, latch or end posts with open end facing routed hole
     - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
     - Insert post into the ground
     - Fill hole with concrete around outside of post
  B. Concrete and rebar*
     - Use two pieces of 1/2" rebar in each hinge, latch and end post
     - Rebar should extend from the bottom of the hole to approximately 12' from the top of the post
     - Hold rebar in opposite corners of post with rebar separator clips
     - Fill post with concrete mix to cover rebar and hardware fasteners
     - Tamp post with a rubber mallet to eliminate air pockets
     - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
- Install post caps
- Caps may be secured with glue, silicone adhesive or #8 x 3/4" screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
### Semi-Private Fence

Includes: Columbia

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**NOTE:** COLUMBIA GATES HAVE BRACES ON BOTH SIDES OF GATE. THERE IS NO DIFFERENCE BETWEEN REGULAR AND OPPOSITE GATES.

- **Dig Holes:** 30" deep or to frost line
- **Allow Clearance** for gate swing
- **Hold Bottom Rails in Post with a Bullet Clip**
- **Allow 1" for hinge and 3/4" for latch system**
- **Insert Aluminum Gate Post Stiffener Inside Post for Faster, Cleaner Installation**

**Embedment Details**

- **Minimum 48" insert required to comply with the high velocity hurricane zones section R44003.1.2.1 of the Florida Building Code.**

**Maximum Post Spacing and Footing Dimensions**

<table>
<thead>
<tr>
<th>Wind Exposure</th>
<th>Footing Depth</th>
<th>Max. Post Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
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</table>

- **NON HVHZ**
- **HVHZ and NON HVHZ**

**HVHZ:** Miami-Dade and Broward counties wind exposures as defined in the ASCE 7-10

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**Featuring Windzone™ Performance**

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**Concrete Fill:**

- **Gravel Fill:** 30" below ground level
- **Top Soil:** 2" above ground level

**Rebar Details**

- **1/2" Rebar** in hinge, latch, and end posts
- **Use (2) pieces of 1/2" rebar in hinge, latch, and end posts. Position rebar in opposing corners of each post with rebar separator clips.**

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**Post Support Options:**

- **Post Centers:** 5x5 Posts = 96-1/8"
- **Post Holes:** 5x5 Posts = 12"
Semi-Private Fence – Imperial, Imperial with Select Cedar Texture

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30" deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12"
     - Hole size for 4 x 4 posts = approximately 10"
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Check bottom rail for drain holes
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in end of rail
   • Depress lock ring tabs and insert rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Fence assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Pickets and Rails
   • Insert mid-rail (if applicable) in post with large holes facing down
   • Insert pickets through holes in mid-rail
   • Insert pickets in bottom rail. Temporarily remove middle rail ends from post. Insert top rail over pickets
   • Insert mid-rail and top rail in post

8. Secure Rails
   • Depress lock ring tabs, insert top rail in post
   • Square pickets and rails
   • Check for even picket spacing on each end of rail
   • Secure rail inside post with a #8 x 3/4" screw (do this on both ends)
   • Level mid-rail, secure rail to pickets with (2) #8 x 1-1/2" screws, snap caps and washers evenly spaced along rail

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1" gap for hinge and 3/4" for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
        A. Aluminum gate post stiffener
           - Slide aluminum gate stiffener inside hinge, latch or end posts
           - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
           - Insert post into the ground
           - Fill hole with concrete around outside of post
        B. Concrete and rebar*
           - Use two pieces of 1/2" rebar in each hinge, latch and end post
           - Rebar should extend from the bottom of the hole to approximately 12" from the top of the post
           - Hold rebar in opposite corners of post with rebar separator clips
           - Fill post with concrete mix to cover rebar and hardware fasteners
           - Tamp post with a rubber mallet to eliminate air pockets
           - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4" screws, caps and washers

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* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Semi-Private Fence

Includes: Imperial, Imperial with Select Cedar Texture

- Dig holes 30" deep or to frost line
- Toward clearance for gate swing
- Allow 1" for hinge and 3/4" for latch system
- Secure mid-rail to pickets with (2) #8 x 1-1/2" screws, caps, and washers
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips

Section A-A

- Line post stiffener aluminum insert

Embedment detail for optional line post stiffener aluminum insert

To comply with the high velocity hurricane zones section R4003.1.2.1 of the Florida Building Code, a steel insert must be added to the top rail and the center picket must be attached to the top and bottom rail with (2) #8 x 1-1/2" screws, caps, and washers

Maximum post spacing and footing dimensions

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HVHZ: Miami-Dade and Broward counties wind exposures as defined in the ASCE 7-10

Featuring WINDZONE™ performance
Semi-Private Fence – Breezewood with Select Cedar Texture

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30” deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rails and pickets being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in end of rail
   • Depress lock ring tabs and insert rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Fence assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Pickets and Rails
   • Insert mid-brace in bottom rail
   • Insert pickets through holes in mid-brace
   • Insert pickets in post far enough to clear other post. Pull pickets into post until crimps lock picket into post
   • Insert mid-brace into top rail
   • Insert top rail into post
   • Pickets can be field crimped for short sections

8. Secure Rails
   • Depress lock ring tabs, insert top rail in post
   • Square pickets and rails
   • Check for even mid-brace spacing on each end of rail
   • Secure rail inside post with a #8 x 3/4” screw (do this on both ends)
   • Level pickets, secure mid-brace to rails with (2) #8 x 1-1/2” screws, snap caps and washers
   • Mid-brace is not required for sections with post centers less than 48”

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1” gap for hinge and 3/4” for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
         - Insert post into the ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar*
         - Use two pieces of 1/2” rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Semi-Private Fence

Includes: Breezewood with Select Cedar Texture

- Dig holes 30" deep or to frost line
- Post centers 5x5 posts = 97"
- Cut holes 30" deep or to frost line
- Secure mid-brace to top and bottom rail with (2) #8 x 1-1/2" screws, caps and washers
- Allow 1" for hinge and 3/4" for latch system
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips
- Stepping recommended
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30" deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12"
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in each end of rail
   • Depress lock ring tabs and insert rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Fence assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Install Pickets and Rails
   • Insert mid-rail in post with large holes facing down
   • Insert pickets through holes in mid-rail
   • Insert pickets in bottom rail. Temporarily remove middle rail ends from post. Insert top rail over pickets
   • Insert mid-rail and top rail in post

8. Secure Rails
   • Square pickets and rails
   • Check for even picket spacing on each end of rail
   • Secure rail inside post with a #8 x 3/4" screw (do this on both ends)
   • Level mid-rail, secure rail to pickets with (2) #8 x 1-1/2" screws, snap caps and washers evenly spaced along rail

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1" gap for hinge and 3/4" for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
         - Insert post into the ground
      B. Concrete and rebar*
         - Use two pieces of 1/2" rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12" from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4" screws, caps and washers

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* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Semi-Private Fence

Includes: Millbrook

- Allows clearance for gate swing
- Allow 1" for hinge and 3/4" for latch system
- Dig holes 30" deep or to frost line
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips

Post support options:
- Post centers
  - 5x5 posts = 96"
- Post holes
  - 5x5 posts = 12"

Hold top and bottom rails in post with lock ring

Secure middle rail to pickets with (2) #8 x 1-1/2" screws, caps, and washers

Lock top rail in post with #8 x 3/4" screw
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30" deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12"
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in both ends of bottom rail
   • Depress lock ring tabs, insert bottom rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position of correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Picket End Channel
   • Cut end channel to length
   • Center channel on post between routed holes
   • Attach channel to post in four locations

8. Install Pickets and Rails
   • Insert first picket in end channels and bottom rail with the groove down
   • Insert remaining pickets into channel with the groove down
   • Insert top rail over last picket
   • Depress lock ring tabs, insert top rail in post
   Note: Alternating grooves up and down will cause inconsistent lines between sections.

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1” gap for hinge and 3/4” for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality.
      Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
         - Insert post into the ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar
         - Use two pieces of 1/2” rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers
Privacy Fence

Includes: Brookline
Brookline with CertaGrain® Texture

- Hold top rails in post with lock ring
- Hold bottom rails in post with lock ring
- Dig holes 30" deep or to frost line
- Post holes 5 x 5 posts = 12" - Post centers 5 x 5 posts = 72" - Allow 1" for hinge and 3/4" for latch system
- Allow clearance for gate swing
- Pickets for this style are tongue and groove - Install pickets with groove side down
- Changing picket orientation can affect horizontal alignment of fence panels
- Post support options:
  - Insert aluminum gate post stiffener inside post for faster, cleaner installation
  - Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips

Stepping Recommended
Privacy Fence – Chesterfield, Chesterfield with CertaGrain® Texture, Chesterfield with CertaStucco™ Texture

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30” deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in both ends of bottom rail
   • Depress lock ring tabs, insert bottom rail in post
   • Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position of correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Picket End Channel
   • When installing Arbor Blend, Arctic Blend, Brazilian Blend, Canyon Blend, Frontier Blend, Honey Blend, Natural Clay, Sierra Blend, Timber Blend or Weathered Blend, picket end channels are required (2 per section)
   • Cut end channel to length
   • Center channel on post between routed holes
   • Attach channel to post in four locations

8. Install Pickets and Rails
   • Pickets are cut at a 5˚ angle to accommodate a 1˚ slope
   • Insert pickets in bottom rail
   • Insert top rail over pickets
   • Depress lock ring tabs, insert top rail in post

9. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1” gap for hinge and 3/4” for latch and gate swing
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality.
    Two methods are available:
    A. Aluminum gate post stiffener
       - Slide aluminum gate stiffener inside hinge, latch or end posts
       - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
       • Insert post into the ground
       • Fill hole with concrete around outside of post
    B. Concrete and rebar
       - Use two pieces of 1/2” rebar in each hinge, latch and end post
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       • Fill post with concrete mix to cover rebar and hardware fasteners
       • Tamp post with a rubber mallet to eliminate air pockets
       • Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Privacy Fence

Includes: Chesterfield
Chesterfield with CertaGrain® Texture
Chesterfield with CertaStucco™ Texture

ALLOW CLEARANCE FOR GATE SWING
PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE
ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM
END CHANNEL
DIG HOLES 30" DEEP OR TO FROST LINE
INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION
REBAR
SEPARATOR CLIP
1/2" REBAR
USE (2) PIECES OF 1/2" REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSING CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS
POST SUPPORT OPTIONS:
POST CENTERS
5 X 5 POSTS = 97"
POST HOLES
5 X 5 POSTS = 12"
ATTACH END CHANNEL TO POST WITH 4 SCREWS

MINIMUM 48" INSERT REQUIRED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONES SECTION R44003.1.2.1 OF THE FLORIDA BUILDING CODE

EMBEDMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT
MAXIMUM POST SPACING AND FOOTING DIMENSIONS

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HVHZ: Miami-Dade and Broward counties wind exposures as defined in the ASCE 7-10

25
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   • Dig holes 30” deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post

4. Install Bottom Rail
   • Tape the ends of any rail being inserted into a post that is to be filled with concrete to prevent concrete seepage
   • Insert lock ring in each end of rail
   • Depress lock ring tabs and insert rail in post. Tabs will recoil to hold rail in post

5. Install Second Post
   • Insert second post in hole
   • Insert bottom rail in post
   • Insert block under bottom rail to position at correct fence height
   • Fill hole around second post with concrete mix
   • Tamp, level and square fence
   • Assembly may be continued by installing all bottom rails first, or one section at a time

6. Support and Secure
   • Level and square fence
   • To lower a post, place a wood block from corner to corner on the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

7. Picket End Channel
   • Cut end channel to length
   • Center channel on post between routed holes
   • Attach channel to post in four locations

8. Install Pickets and Rails
   • Insert pickets in bottom rail
   • Insert top rail over pickets
   • Depress lock rings tabs, insert top rail in post

9. Install Accents
   • Huntington
     - Insert top 2 x 3-1/2 rail with larger holes facing down into post
     - Insert pickets through rail and lock into top fence section rail (pickets are factory crimped to hold in place)
     - To create desired scalloped effect, longer length pickets will need to be cut and then crimped, or a bullet clip may be inserted to hold picket in rail
   • Westminster
     - Insert bottom and side channels (overlap ends) into position on rail and posts - secure with #8 x 1-1/2” screws
     - Insert lattice into channels
     - Slide top channel over lattice
     - Insert top 2 x 3-1/2 rail into routed post holes
     - Secure top channel 2 x 3-1/2 top rail with #8 x 1-1/2” screws

10. Hang Gate/Install Hardware
    • For complete details, see gate installation instructions in hardware box
    • Position gate between posts
    • Allow 1” gap for hinge and 3/4” for latch and gate swing
    • Block up gate to square with fence; rails should be level
    • Gate hardware must be secured to two sides of the post

11. Solidify Gate Posts
    • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality.
    • Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
         - Insert post into the ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar*
         - Use two pieces of 1/2” rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

12. Install Caps
    • Install post caps
    • Caps may be secured with glue, silicone adhesive or #8 x 1-1/2” screws, caps and washers

*Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Privacy Fence

Includes: Chesterfield with Huntington Accent
Chesterfield with Westminster Accent

- Pickets for this style are tongue and groove
- Allow 1" for hinge and 3/4" for latch system
- Hold top rails in post with lock ring
- Hold bottom rails in post with lock ring
- Dig holes 30" deep or to frost line
- Post holes 5 x 5 posts = 12"
- Post centers 5 x 5 posts = 97"
- Allow clearance for gate swing
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips

- Cut 1" off bottom of 3rd picket
- Cut 2" off bottom of 4th picket

TO ACHIEVE THIS SCALLOP:
1. Getting Started
   - Be sure to call underground (811) prior to digging
   - Assemble gates (if necessary) and decide where they will be located
   - Stake out the fence line
   - Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   - Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes
   - Dig holes 30” deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
   - Clean holes and check for straight walls

3. Install First Post
   - Insert post in hole
   - Determine rough height
   - Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   - Tamp concrete in hole to eliminate air pockets
   - Level and square post

4. Install Bottom Rail
   - Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
   - Insert lock ring in both ends of bottom rail
   - Depress lock ring tabs, insert bottom rail in post
   - Tabs will recoil to hold rail in post

5. Install Second Post
   - Insert second post in hole
   - Insert bottom rail in post
   - Insert block under bottom rail to position at correct fence height
   - Fill hole around second post with concrete mix
   - Tamp, level and square fence
   - Assembly may be continued by installing all bottom rails first or one section at a time

6. Support and Secure
   - Level and square fence
   - To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
   - Never strike the PVC post without a wood support

7. Picket End Channel
   - When installing Arbor Blend, Arctic Blend, Brazilian Blend, Frontier Blend, Honey Blend, Natural Clay, Sierra Blend or Weathered Blend, picket end channels are required (4 per section)
   - Cut end channel to length
   - Center channel on post between routed holes
   - Attach channel to post in four locations

8. Install Pickets and Rails
   - Insert pickets in bottom rail
   - Insert mid-rail over pickets
   - Depress lock ring tabs, insert mid-rail in post
   - Insert next row of pickets in mid-rail
   - Insert top rails over pickets
   - Depress lock ring tabs, insert top rail in post

9. Hang Gate/Install Hardware
   - Position gate between posts
   - Allow 1” gap for hinge and 3/4” for latch and gate swing
   - Block up gate to square with fence; rails should be level
   - Gate hardware must be secured to two sides of the post
   - For complete details, see gate installation instructions in hardware box
   - Galveston gate requires 3 hinges

10. Solidify Gate Posts
    - It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
      A. Aluminum gate post stiffener
         - Slide aluminum gate stiffener inside hinge, latch or end posts
         - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
         - Insert post into the ground
         - Fill hole with concrete around outside of post
      B. Concrete and rebar*
         - Use two pieces of 1/2” rebar in each hinge, latch and end post
         - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
         - Hold rebar in opposite corners of post with rebar separator clips
         - Fill post with concrete mix to cover rebar and hardware fasteners
         - Tamp post with a rubber mallet to eliminate air pockets
         - Leave gate on blocks for 72 hours to allow concrete to set

11. Reinforce Posts (two methods)
    A. Concrete and Rebar*
       - Insert two pieces of rebar in all end, line and corner posts. Fill with concrete mix to cover rebar at a height 1” below mid-rail
       - Tamp post with a rubber mallet to eliminate air pockets
    B. Aluminum Line Post Insert
       - Length of aluminum insert should extend from bottom of posts to 4” below mid-rail
    Note: Corner posts should be reinforced with concrete and rebar.

12. Install Caps
    - Install post caps
    - Caps may be secured with glue, silicone adhesive or #8 x 3/4” screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Includes: Galveston
Galveston with CertaGrain® Texture

POST SUPPORT OPTIONS:

- POST CENTERS 5 X 5 POSTS = 97"
- POST HOLES 5 X 5 POSTS = 12"

HOLD TOP RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

DIG HOLES 1/2" DEEP OR TO FROST LINE

NOTE: 3 HINGES ARE REQUIRED FOR GALVESTON
ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM

POST SUPPORT OPTIONS:

INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION
USE (2) PIECES OF 1/2" REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSING CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4" BELOW MID-RAIL.
LINE POST STIFFENER ALUMINUM INSERT

FILL END, LINE AND CORNER POSTS WITH CONCRETE TO 1" BELOW MID-RAIL. USE (2) PIECES OF 1/2" REBAR IN EACH POST. LENGTH OF REBAR SHOULD EXTEND FROM BOTTOM OF HOLE TO 4" BELOW MID-RAIL.

ATTACH END CHANNEL TO POST WITH 4 SCREWS

END CHANNEL

ALLOW CLEARANCE FOR GATE SWING

PRIVATE FENCE

INCLUDES: GALVESTON

GALVESTON WITH CERTAGRAN® TEXTURE

NOTE: 3 HINGES ARE REQUIRED FOR GALVESTON
ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM

POST SUPPORT OPTIONS:

POST CENTERS 5 X 5 POSTS = 97"

POST HOLES 5 X 5 POSTS = 12"

DIG HOLES 1/2" DEEP OR TO FROST LINE

HOLD TOP RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

NOTE: 3 HINGES ARE REQUIRED FOR GALVESTON
ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM

POST SUPPORT OPTIONS:

INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION
USE (2) PIECES OF 1/2" REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSING CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4" BELOW MID-RAIL.
LINE POST STIFFENER ALUMINUM INSERT

FILL END, LINE AND CORNER POSTS WITH CONCRETE TO 1" BELOW MID-RAIL. USE (2) PIECES OF 1/2" REBAR IN EACH POST. LENGTH OF REBAR SHOULD EXTEND FROM BOTTOM OF HOLE TO 4" BELOW MID-RAIL.
1. Getting Started

- Be sure to call underground (811) prior to digging
- Assemble gates (if necessary) and decide where they will be located
- Stake out the fence line
- Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
- Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes

- Dig holes 30" deep or to frost line
  - Hole size for 5 x 5 posts = approximately 12"
- Clean holes and check for straight walls

3. Install First Post

- Insert post in hole
- Determine rough height
- Fill hole around post with concrete mix (sand, gravel and cement) approximately 2" or 4" below grade
- Tamp concrete in hole to eliminate air pockets
- Level and square post

4. Install Bottom Rail

- Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
- Insert lock ring in both ends of bottom rail
- Depress lock ring tabs, insert bottom rail in post
- Tabs will recoil to hold rail in post

5. Install Second Post

- Insert second post in hole
- Insert bottom rail in post
- Insert block under bottom rail to position of correct fence height
- Fill hole around second post with concrete mix
- Tamp, level and square fence
- Assembly may be continued by installing all bottom rails first or one section at a time

6. Support and Secure

- Level and square fence
- To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
- Never strike the PVC post without a wood support

7. Picket End Channel

- Cut end channel to length
- Center channel on post between routed holes
- Attach channel to post in four locations

8. Install Pickets and Rails

- Pickets are cut at a 3° angle for racking
- Insert pickets in bottom rail
- Insert top rail over pickets
- Depress lock ring tabs, insert top rail in post

9. Hang Gate/Install Hardware

- For complete details, see gate installation instructions in hardware box
- Position gate between posts
- Allow 1" gap for hinge and 3/4" for latch and gate swing
- Block up gate to square with fence; rails should be level
- Gate hardware must be secured to two sides of the post

10. Solidify Gate Posts

- It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
  A. Aluminum gate post stiffener
    - Slide aluminum gate stiffener inside hinge, latch or end posts
    - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
    - Insert post into the ground
  B. Concrete and rebar*
    - Use two pieces of 1/2" rebar in each hinge, latch and end post
    - Rebar should extend from the bottom of the hole to approximately 12" from the top of the post
    - Hold rebar in opposite corners of post with rebar separator clips
    - Fill post with concrete mix to cover rebar and hardware fasteners
    - Tamp post with a rubber mallet to eliminate air pockets
    - Leave gate on blocks for 72 hours to allow concrete to set

11. Install Caps

- Install post caps
- Caps may be secured with glue, silicone adhesive or #8 x 3/4" screws, caps and washers

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Privacy Fence

Includes: New Lexington

For improved wind performance, attach the center two pickets to the top and bottom rail with (4) 1-1/2" screws with washers and snap caps. This will not meet Windzone™ requirements.

Allow clearance for gate swing.

End channel, to post with 4 screws.

Post support options:
- Insert aluminum gate post stiffener inside post for faster, cleaner installation.
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips.

Hole bottom rails in post with lock ring.

Hold top rails in post with lock ring.

Dig holes 30" deep or to frost line.

Post centers 5 x 5 posts = 97".

Post holes 5 x 5 posts = 12".

Allow 1" for hinge and 3/4" for latch system.

Pickets for this style are tongue and groove.

Post support options.
Accent Fence

Includes: Lattice, Victorian

Once the main fence section is installed, proceed as follows:

Lattice
- Measure distance between inside faces of the posts
- Cut bottom channel to fit between posts
- Fasten bottom channel to top fence rail with #8 X 1-1/2" screws evenly spaced along the length
- Fasten side channels to posts with #8 X 1-1/2" screws
- Insert lattice into channels
- Slide top channel over lattice
- Insert top 2 X 3-1/2 rail into routed post holes
- Secure top channel to 2 X 3-1/2 top rail with #8 X 1-1/2" screws evenly spaced along the length

Victorian
- Insert accent pickets in routed section top rail
- Insert top accent rail over pickets
- Insert both ends of top rail into routed post holes
- Secure top rail in position with #8 x 3/4" screws from inside the post

SHOWN WITH CHESTERFIELD FENCE
Accent Fence

Includes: Lattice – New Lexington, Chesterfield with CertaGrain® Texture

Once the main fence section is installed, proceed as follows:

Lattice

- Leave one end of top rail out of post
- Starting at the end, slide lattice into top rail channel
- Insert rail into routed post, secure with lock ring
- Starting at the end, slide top channel over lattice
- Insert both ends of top channel into routed post
- Secure rail inside post with #8 x 3/4" screw (do this on both ends)
Curved Rail

Includes: Concave, Convex, "S" Curve and Swoop

1. Set Posts

2. Insert Pickets in Bottom Rail

3. Insert Top Rail into Post Holes

4. Trace the Outline of the Rail onto the Pickets
   - Mark each picket with an X on the scrap side of the line
   - Numbering pickets will help when reinstalling them
Curved Rail

Includes: Concave, Convex, "S" Curve and Swoop

5. Cut Pickets
   - Remember to wear safety glasses when cutting
   - Use pencil line as guide only — DO NOT CUT ALONG PENCIL LINE
   - Blade should cut approximately 1-1/4 above the line to allow picket to enter rail
   - To practice safety, remove pickets and cut on a flat, secure surface

6. Picket End Channel
   - Cut end channel to length
   - Center channel on post between routed holes
   - Attach channel to post in four locations

7. Insert Pickets into Bottom Rail

8. Slide Top Rail over Pickets

9. Insert Locking Rings

10. Insert Rail into Post Holes
1. Getting Started

• Be sure to call underground (811) prior to digging
• Assemble gates (if necessary) and decide where they will be located
• Stake out the fence line
• Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
• Start at gate end post and work outward to determine proper fence height relative to ground

2. Dig Holes

• Dig holes 30” deep or to frost line
  - Hole size for 5 x 5 posts = approximately 12”
• Clean holes and check for straight walls

3. Install First Post

• Insert post in hole
• Determine rough height
• Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
• Tamp concrete in hole to eliminate air pockets
• Level and square post
• Fence may be installed post and bottom rails first, then upper rails

4. Install Rails

• Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
• Standard rails are supplied in 16 foot lengths
• For rolling terrain, rails may need to be cut to 95-1/2”
• The starting point for rails should be staggered from post to post for bottom/mid/top rail for maximum strength
• Insert lock ring into one end of rail by depressing tabs, insert in rail end and release
• Depress lock ring tabs to insert bottom rail in first post
• Tabs will recoil to hold rail in post
• If bottom rail is 16’ long, slide rail through second post and then insert post in ground
• Insert lock ring in rail end, insert end into third post
• When installing rails leave a 1” gap between rail ends inside post to allow for expansion

5. Support and Secure

• Block up bottom rail to determine correct fence height
• Fill holes around posts with concrete mix
• Tamp, level and square
• Fence assembly may be continued by installing all bottom rails first or one section at a time
• To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
• Never strike the PVC post without a wood support

6. Crossbuck

• Insert lock rings in diagonal rails and insert into each post
  Note: Standard diagonal rails are cut to 97” to compensate for angle of install

7. Hang Gate/Install Hardware

• For complete details, see gate installation instructions in hardware box
• Position gate between posts
• Allow 1-1/2” gap on hinge side of the gate and 1-1/4” on latch side to allow for the gate swing and hardware
• Block up gate to square with fence; rails should be level
• Gate hardware must be secured to two sides of the post

8. Solidify Gate Posts

• It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
  A. Aluminum gate post stiffener
    - Slide aluminum gate stiffener inside hinge, latch or end posts
    - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
    - Insert post into the ground
    - Fill hole with concrete around outside of post
  B. Concrete and rebar*
    - Use two pieces of 1/2” rebar in each hinge, latch and end post
    - Rebar should extend from the bottom of the hole to approximately 12” from the top of the post
    - Hold rebar in opposite corners of post with rebar separator clips
    - Fill post with concrete mix to cover rebar and hardware fasteners
    - Tamp post with a rubber mallet to eliminate air pockets
    - Leave gate on blocks for 72 hours to allow concrete to set

9. Install Caps

• Install post caps by pressing in place inside post

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Post & Rail Fence

Includes: Crossbuck, 2-Rail, 3-Rail and 4-Rail

- Stagger rail ends for greater strength
- Allow 1-1/2" gap on hinge side of gate and 1-1/4" on latch side of gate hardware
- Attach braces on both sides of gate in identical positions
- Hold rails in post with lock ring. Depress lock ring tabs, insert in rail and release
- Post holes: 5 x 5 posts = 12" deep or to frost line
- Dig holes 30" deep or to frost line
- Post centers: 5 x 5 posts = 96"
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Assemble gates (if necessary) and decide where they will be located
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at gate end post and work outward to determine proper fence height relative to ground
   *In climates where the temperature exceeds 100° Fahrenheit, we recommend installing Arctic Blend, Brazilian Blend, Sierra Blend and Weathered Blend products on 6’ post centers

2. Dig Holes
   • Dig holes 30” deep or to frost line
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install First Post
   • Insert post in hole
   • Determine rough height
   • Fill hole around post with concrete mix (sand, gravel and cement) approximately 2” or 4” below grade
   • Tamp concrete in hole to eliminate air pockets
   • Level and square post
   • Fence may be installed post and bottom rails first, then upper rails

4. Install Rails
   • White product uses 1-1/2 x 5-1/2 rails
   • Arctic Blend, Brazilian Blend, Sierra Blend and Weathered Blend use 2 x 6 rails
   • Tape the ends of any rail going into a post that is to be filled with concrete to prevent concrete seepage
   • Standard rails are supplied in 16 foot lengths for White (12 foot rails for Blend products)
   • For rolling terrain, rails may need to be shortened
   • The starting point for rails should be staggered from post to post for bottom/mid/top rail for maximum strength
   • Insert lock ring into one end of rail by depressing tabs, insert in rail end and release
   • Depress lock ring tabs to insert bottom rail in first post
   • Tabs will recoil to hold rail in post
   • Insert lock ring in rail end, insert end into third post
   • When installing rails leave a 1” gap between rail ends inside post to allow for expansion

5. Support and Secure
   • Block up bottom rail to determine correct fence height
   • Fill holes around posts with concrete mix
   • Tamp, level and square
   • Fence assembly may be continued by installing all bottom rails first or one section at a time
   • To lower a post, place a wood block from corner to corner of the post and carefully tap with a mallet
   • Never strike the PVC post without a wood support

6. Hang Gate/Install Hardware
   • For complete details, see gate installation instructions in hardware box
   • Position gate between posts
   • Allow 1-1/2” gap on hinge side of the gate and 1-1/4” on latch side to allow for the gate swing and hardware
   • Block up gate to square with fence; rails should be level
   • Gate hardware must be secured to two sides of the post

7. Solidify Gate Posts
   • It is critical that gate hinge and latch posts are solid to ensure proper gate functionality. Two methods are available:
     A. Aluminum gate post stiffener
        - Slide aluminum gate stiffener inside hinge, latch or end posts
        - Drive a screw through the vinyl into the aluminum stiffener at the bottom of the post
        - Insert post into the ground
        - Fill hole with concrete around outside of post
     B. Concrete and rebar*
        - Use two pieces of 1/2” rebar in each hinge, latch and end post
        - Rebar should extend from the bottom of the hole to approximately 12’ from the top of the post
        - Hold rebar in opposite corners of post with rebar separator clips
        - Fill post with concrete mix to cover rebar and hardware fasteners
        - Tamp post with a rubber mallet to eliminate air pockets
        - Leave gate on blocks for 72 hours to allow concrete to set

8. Install Caps
   • Install post caps by pressing in place inside post

* Caution – In climates that experience freeze-thaw cycles, this installation method could result in post cracking over time. This would not be covered by the warranty.
Post & Rail with CertaGrain® Texture

Includes: 2-Rail, 3-Rail and 4-Rail

- Allow 1-1/2" gap on hinge side of gate and 1-1/4" on latch side of gate hardware
- Hold rails in post with lock ring. Depress lock ring tabs and release
- Stagger rail ends for greater strength
- Attach braces on both sides of gate in identical positions
- Dig holes 30" deep or to frost line
- Dig holes 5 x 5 posts = 12"
- Post centers
  - White 5 x 5 posts = 96"
  - Arctic Blend, Brazilian Blend, Sierra Blend, Weathered Blend 5 x 5 posts = 72"

POST SUPPORT OPTIONS:
- Insert aluminum gate post stiffener inside post for faster, cleaner installation
- Use (2) pieces of 1/2" rebar in hinge, latch and end posts. Position rebar in opposing corners of each post with rebar separator clips
Variable Terrain Installation

Calculate Rise/Foot Angle
To determine the hole enlargement size, first calculate the slope rise/foot or the angle of the slope. Refer to the diagram and examples.

- Measure section length in inches
- Determine section rise by using line level and measuring vertical rise; measure rise in inches
- Divide rise by section length to get rise per inch
- Multiply by 12 to determine rise per foot

Ex: 24” rise ÷ 96” length = .25 rise per inch = 3” rise per foot

- Two methods exist for installing a fence on variable sloping terrain — stepping and racking
- For either method, divide slope evenly into all sections

Stepping Method
With the stepping method, the rails remain horizontal and the posts are extended to accommodate the variance in terrain. Longer end posts should be used and holes for the opposite side of the post can be field fabricated with template kit and router or spiral saw to accept rails.

Racking Method — 10˚ or Less
With the racking method, the horizontal rails will follow the sloping terrain.

When installing multiple sections, it is advisable to use an end post and field fabricate the opposite side of the post to avoid a jagged fence line.

Depending on the severity of rack (and specific fence style), the following field fabrication steps may be necessary for proper installation:

1. Enlarge holes in post to accept rails
2. Enlarge holes in rail to accept pickets
3. Shorten picket length

NOTE: Depending on severity of rack, post centers may need to be decreased. Be sure to verify prior to setting posts.

1. Enlarge holes in post to accept rails
   - Determine angle or slope
   - Place first post in hole and hold plumb
   - Place rail next to post (not in routed hole) at correct angle of grade

- Mark rail where post crosses it on angle
- Remove rail, measure the length of the drawn angle. Add 1/8” to this length to determine proper post hole size
- Enlarge post holes
NOTE: Always open bottom of top hole and top of bottom hole to maintain proper fence height.

- Holes may be cut utilizing a template kit and router or spiral saw
- Determine location of holes on opposite side of line post by laying post across side of rail (align with routed hole) and marking exit position of rail on opposite side of post
- Cut holes with template kit and router or spiral saw as previous

2. Enlarge holes in rail to accept picket
   - Position rail at desired angle
   - Hold picket plumb against side of rail
   - Mark picket where rail crosses it on angle

   - Measure the length of the drawn angle and add 1/8" to this length to determine proper rail hole size
   - Enlarge holes with a spiral saw

   NOTE: Always cut the same side of each hole to maintain spacing.

3. Shorten picket length
   - For extreme racking situations, picket ends may need to be cut to accommodate rack
   - Position top and bottom rails in routed post holes
   - Position picket next to rails so it is plumb and aligned with bottom side of bottom rail
   - Mark position where top of picket intersects with top of top rail; subtract 3/8" and cut picket to length

   NOTE: For ribbed rails, top and bottom of picket will need to be aligned with internal rib.
Post Routing Template Kit

The routing template kit can be used to enlarge holes for racking as well as to create transitions for stepping, changing heights or styles.

Install 3/8” router blade and 5/8” bearing or router guide. Any substitutions may result in improper hole size or damage to the template kit.

NOTE: Template cutout size is designed to be 1/8” larger than the finished cut to allow bearing to follow the shape.

Select the appropriate template for the application.

Assemble the template as shown, configured for the desired post size (4” or 5”).

NOTE: It is advisable to practice routing on a scrap piece before attempting actual cut.

Mark location of hole to be routed. Offset template cut by 1/8” to allow for bearing (i.e., if hole is to be located 3” from top of post, position edge of template 2-7/8” from top).

Tighten wing nuts. Place on a flat, firm surface to prevent tipping.

Route hole per manufacturer’s recommendations.

ALWAYS WEAR SAFETY GLASSES.

Loosen wing nut and remove template.

For situations that require a larger hole to accommodate racking, route a standard hole, loosen wing nuts and slide template to new position to route excess material.

Breezewood Template

Breezewood template also available. Contact your Territory Manager for more details.

Each kit comes in a carrying case suitable for field use.

A 1-1/8" TEMPLATE SPACER PLATE
B 1-1/2" TEMPLATE SPACER PLATE
D 1/4" -20 X 6" BOLTS
E 3/8" OD PLEXI TUBE
F 1/4" FLAT WASHER
G 1/4" -20 WING NUT
H 3/8" ROUTER BIT W/ 1/4" SHANK
I 5/8" BEARING W/ 1/4" ID OPENING

OUTSIDE HOLES FIT OVER 5 X 5 POST
INSIDE HOLES FIT OVER 4 X 4 POST

Insert 5/8” bearing over router bit shank. Bearing will follow cutout in template.
Glossary

**Accent**  Decorative addition to top of fence such as lattice.

**Aluminum Channel**  Aluminum structural support used as a stiffener in rails.

**Auger**  Hand or machine-operated tool with a screw-like shank for boring holes in soil.

**Blocking**  Method for supporting horizontal members, such as fence rails or gates.

**Brace**  Diagonal component of a gate; provides dimensional stability.

**Bullet Clip**  Gravity clip that is used to hold rails in posts.

**Caps**  Vinyl accessory placed on top of fence posts to provide a finished look and prevent water penetration.

**Crimp Lock**  Method for fastening rails inside posts. The rail is notched (crimped) so that it stays within the post once inserted.

**EZ Set Bracket**  Aluminum bracket system that fits over a steel post as an alternative installation method to secure and hold vinyl post in position.

**Fence Layout**  Section-by-section diagram of the proposed fence line.

**Frost Line**  Lowest level in soil that freezes. Frost line depth depends on winter temperatures, soil type and vegetation cover, and varies from 0" in warm regions to 3' or more in cold-winter areas.

**Gate**  Movable framework or solid structure that swings on hinges; controls entrance or exit through an opening in a fence.

**Gate Post Stiffener**  Structural aluminum support used in gate hinge and latch posts to solidify as an alternative to traditional concrete and rebar method.

**Gloss**  Describes amount of reflection or sheen on the surface of vinyl.

**Good Neighbor Fence**  Fence that has the same look on both sides.

**Lock Ring**  Circular-shaped fastener with tabs that insert into rails for holding into posts.

**Opposite Gate**  Used in double-gate situations; complements the primary gate; diagonal brace is secured in the opposite direction for a pleasing, symmetrical look.

**On Center (O.C.)**  Measure from the center of one object (e.g., a post) to the center of the next post.

**Picket**  Vertical member of fence between rails.

**Post**  Vertical support member of fence system.

**Picket End Channel**  U-shaped channel attached to the posts on both ends of a privacy fence section.

**PVC**  Polyvinyl chloride, the plastic resin used to manufacture "vinyl" fence.

**Rail**  Horizontal pieces between fence posts.

**Racking**  Method of installing fence on sloped terrain. Fence posts and pickets are plumb, but the rails are secured at an angle so they parallel the grade.

**Rebar**  Reinforcing bar, placed in end and gate posts to vertically reinforce the fence; No. 4 rebar is 1/2" diameter.

**Routing Template**  A guide used for field routing posts that require hole positions other than standard.

**Scalloped**  Fence style in which the pickets follow a concave pattern high on both ends and low in the middle.

**Slope**  Degree of incline of a hillside; measured in inches of rise per horizontal inches of run (degree of rack).

**Snap Cap**  Decorative plastic cap and washer system used to cover the screw head.

**Spacer Bar**  Wood or like material used to determine infill area between sections or gates (post spacing).

**Steel Channel**  Galvanized steel structural support used as a stiffener in vinyl rails.

**Stepping**  Method of installing fence on sloped terrain. Fence rails remain horizontal, and posts are extended to accommodate the variance in the grade.

**Tamp**  Method of releasing air pockets in concrete by the use of repeated light blows with a mallet on outside of post or piece of lumber in post hole.

**Wall Mount Brackets**  Aluminum bracket system used as an alternative installation method to fasten fence rails directly to walls or other structural surface.

**Weep Holes**  Openings drilled in bottom rails for drainage of water.