# Bufftech®

Molded and Extruded Fence Installation Guideline

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Fence System Components - Extruded

- Line Post
- Top Rail
- Section
- Corner Post
- Bottom Rail
- Gate
- Cap
- End/Gate Post
- Gate

Fence System Components - Extruded

- Exterior Flat
- Interior Flat
- Gothic
- Exterior Ball
- New England

- LOCK LATCH
- DROP PIN
- 1" ON EACH SIDE FOR HINGE
- 3/4" FOR LATCH
- 1/2" ON EACH SIDE FOR HINGE
Fence System Components - Molded

**Fence Panel**

72” x 72”
All size fence panels include steel channel in top and bottom rail

**Caps**

- Single Cap
- Double Inline Cap
- 45° Cap

**Post Types**

- Line Post
- End Post
- Corner Post

102” POST HEIGHT
74” MINIMUM TOP OF POST TO GROUND LEVEL
71-1/2”
28”
Gate hinge threads into the upper and lower inserts in the gate metal frame leaving about 1.5" from the edge of the gate to the gate post.

All gates require about a 1-1/2” gap between the gate and the gate post, and about a 1” gap between the gate and the end post or between the two gates when using double gates. For a single gate, use one gate post and one end post. For double gates, use two gate posts.

<table>
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<tr>
<th>Gate Width</th>
<th>Single Opening</th>
<th>Double Drive w/3ft. gate</th>
<th>Double Drive w/4ft. gate</th>
<th>Double Drive w/5ft. gate</th>
<th>Double Drive w/6ft. gate</th>
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<tr>
<td>3ft.</td>
<td>38-1/2”</td>
<td>76”</td>
<td>88”</td>
<td>100”</td>
<td>111”</td>
</tr>
<tr>
<td>4ft.</td>
<td>50-1/2”</td>
<td>88”</td>
<td>100”</td>
<td>112”</td>
<td>123”</td>
</tr>
<tr>
<td>5ft.</td>
<td>62-1/2”</td>
<td>100”</td>
<td>112”</td>
<td>124”</td>
<td>135”</td>
</tr>
<tr>
<td>6ft.</td>
<td>73-1/2”</td>
<td>111”</td>
<td>123”</td>
<td>135”</td>
<td>146”</td>
</tr>
</tbody>
</table>
Tools and Materials

Getting Started

- Site plans and permits
- Measuring tape
- Hammer or mallet
- Wooden stakes
- String line
- Spray paint for hole centers for post and gate spacing
- Wooden spacer bar for post and gate spacing
- Level
- Concrete

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 hardware if using aluminum insert
  - 3/8" for lock rings
- 1/2" deep socket (or nut driver) for traditional picket
- 3/8" nut-driver - Molded

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

Installing Bottom Rail

- Leveling blocks
- Shim stock
- Duct tape to seal rail ends

Installing Gate(s) Extruded

- Wrench
  - 7/16" for hinge nuts
- Flat screwdriver to activate hinge spring

Installing Gate(s) Molded

- 7/32" Allen wrench
- 3/8" nut-driver

Filling Post with Concrete Extruded

- 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
- Post routing - Extruded
- Template kit with router
- Spiral saw
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

<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>
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<tr>
<td>4x4</td>
<td>3'</td>
<td>120 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>170 lbs</td>
</tr>
<tr>
<td>5x5</td>
<td>5'</td>
<td>140 lbs</td>
<td>235 lbs</td>
<td>370 lbs</td>
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<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>
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</table>

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

- Check local codes for frost line depth and regulations

Solidify Posts - Extruded

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 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 fasteners
- Clean 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 - Extruded

- 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

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
   • 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 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 Top Rail
   • Insert lock ring in each end of rail
   • 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

POST HOLES
4 x 4 POSTS = 10" 
5 x 5 POSTS = 12"

DIG HOLES 30" DEEP OR TO FROST LINE

ALLOW CLEARANCE
FOR GATE SWING

4 x 4 POST CENTERS
3" PICKET = 72" 
1-1/2" PICKET = 72-1/2"

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

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

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

LOCK TOP RAIL IN POST WITH #8 X 3/4" SCREW
Traditional Picket Fence – Danbury (straight & concave), Danbury with Select Cedar Texture (straight & concave), Rothbury (straight & concave)

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 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 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
   • Insert lock ring in each end of rail
   • 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)
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 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 Pickets and Rails
   - Insert mid-rail (if applicable) in post with large holes facing down. Do not install lock rings at this point
   - 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 lock ring in end of rail(s)
   - Depress lock ring tabs and insert rail(s) in post
   - 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 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, Princeton, Victorian

DIG HOLES 30" DEEP OR TO FROST LINE

4 X 4 POSTS = 10"
5 X 5 POSTS = 12"

ALLOW CLEARANCE FOR GATE SWING

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

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

POST CENTERS
4 X 4 POSTS = 96"
5 X 5 POSTS = 97"

POST SUPPORT OPTIONS:

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 CENTER OPTIONS:

4 X 4 POSTS = 96"
5 X 5 POSTS = 97"

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 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
   • Insert lock rick in each end of rail
   • Middle and upper rails are routed with larger holes on the bottom for ease of installation and racking

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 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

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.
Classic Fence

Includes: Manchester (straight & concave)

- Includes Manchester (straight & concave)
  - Manchester Concave
    - Cut 2” off bottom of 3rd picket
    - Cut 4” off bottom of 4th picket

Dig holes 30” deep or to frost line

Hole size 5 x 5 post = 12”

Post centers = 96”

Allow 1” for hinge and 3/4” for latch system

Insert Aluminum gate post stiffener inside post for faster, cleaner installation

Post support options:

- 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

Includes Manchester Concave:
- First four and last four pickets may be field cut to form desired design.
- To hold picket in bottom rail, drill 1/4” hole through side of picket and insert bullet clip
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

POST CENTERS
5 X 5 POSTS = 96-1/8"

DIG HOLES 30" DEEP OR TO FROST LINE

POST HOLES
5 X 5 posts = 12"

HOLD BOTTOM RAILS IN POST WITH A BULLET CLIP

ALLOW CLEARANCE FOR GATE SWING

NOTE: COLUMBIA USES MILLBROOK GATES AND GATE KITS.

EMBEDMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT

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

SECCTION A-A
LINE POST STIFFENER ALUMINUM INSERT

ALUMINUM INSERT
(on Brookline and Breezewood Aluminum insert ends 1" from top of post.)

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>
<td>30&quot;</td>
<td>97&quot;</td>
</tr>
<tr>
<td>B</td>
<td>24&quot;</td>
<td>66&quot;</td>
</tr>
<tr>
<td>C</td>
<td>36&quot;</td>
<td>88&quot;</td>
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<td>C</td>
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<tr>
<td>D</td>
<td>36&quot;</td>
<td>75&quot;</td>
</tr>
<tr>
<td>D</td>
<td>30&quot;</td>
<td>56&quot;</td>
</tr>
</tbody>
</table>

NON HVHZ

HVHZ and NON HVHZ

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

FEATURING WINDZONE™ PERFORMANCE

CONCRETE 3000 P.S.I. MINIMUM

GRAVEL FILL

GROUND LEVEL

TOP SOIL

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:

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

NOTE: COLUMBIA USES MILLBROOK GATES AND GATE KITS.
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 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 (if applicable) in post with large holes facing down. Do not install lock rings at this point
   • 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 lock rings in end of rail(s)
   • Depress lock ring tabs and insert rail(s) in post
   • 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
         - 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: Imperial, Imperial with Select Cedar Texture

- Dig holes 30" deep or to frost line.
- Allow 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.

**Embedment detail for optional line post stiffener aluminum insert**

To comply with the high velocity hurricane zones section R400.3.1.2.1 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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<thead>
<tr>
<th>Wind Exposure</th>
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</tr>
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<tbody>
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</tr>
<tr>
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<td>24&quot;</td>
<td>66&quot;</td>
</tr>
<tr>
<td>C</td>
<td>36&quot;</td>
<td>88&quot;</td>
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<tr>
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<td>30&quot;</td>
<td>68&quot;</td>
</tr>
<tr>
<td>D</td>
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</tr>
<tr>
<td>D</td>
<td>30&quot;</td>
<td>56&quot;</td>
</tr>
</tbody>
</table>

HVHZ: Miami-Dade and Broward counties wind exposures as defined in the ASCE 7-10.
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
- Lock top rail in post with #8 x 3/4" screw
- 5 x 5 posts = 91"
- Dig holes 30" deep or to frost line
- Post centers 5 x 5 posts = 91"
- 5 x 5 posts = 12"
- Crimped Picket
- Post support options:
  - Rebar separator clip
  - 1/2" rebar

Embellishment detail for optional line post stiffener aluminum insert

To comply with the high velocity hurricane zones Section R44003.1.2.1 of the Florida Building Code, a steel insert must be added to the top rail and the mid-brace 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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<th>Wind Exposure</th>
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<th>Max. Post Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>30&quot;</td>
<td>97&quot; Non HVHZ</td>
</tr>
<tr>
<td>B</td>
<td>24&quot;</td>
<td>65&quot; Non HVHZ</td>
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<td>C</td>
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</tr>
<tr>
<td>D</td>
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<tr>
<td>D</td>
<td>30&quot;</td>
<td>56&quot; HVHZ and Non HVHZ</td>
</tr>
</tbody>
</table>

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

Featuring Windzone™ performance

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
         - 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: Millbrook

- Semi-private fence
- Includes Millbrook
- SECURE MIDDLE RAIL TO PICKETS WITH (2) #8 X 1-1/2" SCREWS, CAPS, AND WASHERS
- ALLOW 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 5 X 5 POSTS = 96" 
  POST HOLES 5 X 5 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

23
Privacy Fence – Allegheny™ 3', 4', and 6' High

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Determine gate location(s)
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at an end, gate, or corner post and work outward to determine proper fence height relative to ground. If there is a slope it is easier to begin at the top end and work your way downhill

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 Panel Brackets
   (note: brackets come attached to the tip of fence posts)
   • Determine height of bracket from top of post
   • Attach bracket to post with #14 hex washer head self-tapping screw
   • A template can speed attachment for level installations

4. Cutting Down Posts (if required)
   • Measure height from top of post
   • Cut off bottom of post with metal cutting blade
   • Never cut the top of the post

5. Setting Posts
   • 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

6. Spacing Posts
   • Use steel stiffener from panel (70-1/4” – 6’ or 95” – 8’)
   • Place stiffener between posts
   • Set post (leave spacer in place for one hour minimum)
   • Set 3 to 4 posts with stiffeners as spacers, then advance them one at a time starting with the first stiffener

7. Install Fence Panels
   • Check to ensure top and bottom rails have stiffeners. They come installed, however, may have been removed to use as spacers when setting posts
   • Lift panel to approximately 4’ off ground
   • Insert panel into channel on first post
   • Flex the next post until the channel will receive panel
   • Ease panel down onto panel brackets

8. Secure Fence Panels
   • Panels must be attached to end, gate, and corner gate and corner post with one fastener per panel
   • To prevent unauthorized panel removal, you can attach one end of each panel into the post with one fastener
   • Never attach both ends of a panel to posts

9. Cutting Panels (if required)
   • Remove steel stiffeners from panel
   • Determine distance between posts from inside of channel to inside of channel
   • Cut stiffeners to that width
   • Measure and mark panel ½” shorter than stiffeners (this is needed for expansion and contraction of panel)
   • Cut panel

10. Gate Openings
    • Post spacing is critical. The ideal spacing is 1” on latch post and 1-1/2” between hinge post
    • Hinges should be attached to a gate post

11. Gate Installation
    • Attach striker bar to gate using provided button head screws
    • Thread the ½’ hinge rod into the upper and lower inserts in the metal gate frame leaving approximately 1-1/2” from the edge of the gate to the bracket
    • Determine proper height for gate
    • Attach hinges to gate post with 2-1/2” self-tapping screws provided (do not over tighten screws as this can crush the internal foam and make an indentation in the post
    • Level the gate
    • Align the latch with the striker bar and attach the latch to end post with 2-1/2” self-tapping screws provided

12. Install Caps
    • Install post caps (caps are pressure fit, however a 3’ deck screw can be driven through the top of the cap into the middle of the post if desired)
Privacy Fence

Includes: Allegheny

POST HOLES
5 X 5 POSTS = 12"

DIG HOLES 30"
DEEP OR TO
FROST LINE

POST CENTERS
8 FT WIDE = 96"
6 FT. WIDE = SEE CHART BELOW

Panel Size | 3' | 4' | 6' | 8'
---|---|---|---|---
Bracket Location from top of post | 38” | 50” | 74” | 98”

Center to Center Post Dimensions for 6ft

<table>
<thead>
<tr>
<th></th>
<th>Line</th>
<th>Corner</th>
<th>End</th>
<th>Gate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>71-1/2”</td>
<td>72-1/2”</td>
<td>71-1/2”</td>
<td>72-1/2”</td>
</tr>
<tr>
<td>Corner</td>
<td>73-1/2”</td>
<td>72-1/2”</td>
<td>73-1/2”</td>
<td></td>
</tr>
</tbody>
</table>

Featuring WINDZONE™ Performance
1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Determine gate location(s)
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at an end, gate, or corner post and work outward to determine proper fence height relative to ground. If there is a slope it is easier to begin at the top end and work your way downhill.

2. Dig Holes
   • Dig holes 48” deep
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install fence brackets (note brackets come attached to the tip of fence posts)
   • Determine height of bracket from top of post
   • Attach bracket to post with #14 hex washer head self-tapping screw
   • A template can speed attachment for level installations

4. Cutting Down Posts (if required)
   • Measure height from top of post
   • Cut off bottom of post with metal cutting blade
   • Never cut the top of the post

5. Setting 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

6. Spacing Posts
   • Use steel stiffeners from panel (95” – 8’)
   • Place stiffener between posts
   • Set post (leave spacer in place for one hour minimum)
   • Set 3 to 4 posts with stiffeners as spacers, then advance them one at a time starting with the first stiffener

7. Install Bottom Fence Panels
   • Check to ensure top and bottom rails have stiffeners. They come installed, however, may have been removed to use as spacers when setting posts
   • Lift panel and insert into post channels
   • Ease panel down onto fence brackets
   NOTE: Be certain that the 2” high rail is on top of the bottom panel

8. Install top panel
   • Lift panel and insert into post channels
   • Ease panel down onto bottom panel
   NOTE: Be certain the 2” high rail is on the bottom of the top panel
   Tip: When installing panels, insert a short piece of 1-3/8” pipe into both ends of the panel to use as handles. 2x6 wood blocks can be used to support panel while lowering.

9. Secure fence panels
   • Panels must be attached to end and gate post with one fastener per panel
   • To prevent unauthorized panel removal, you can attach one end of each panel into the post with one fastener
   • Never attach both ends of a panel to posts

10. Cutting panels (if required)
    • Remove steel stiffeners from panel
    • Determine distance between posts from inside of channel to inside of channel
    • Cut stiffeners to that width
    • Measure and mark panel ½” shorter than stiffeners (this is needed for expansion and contraction of panel)
    • Cut panel
    • A cut panel bracket is required on top and bottom cut panels.
    Tip: Pinning the cut panel bracket in place will help with installation

11. Gate openings
    • Post spacing is critical. The ideal spacing is 1” on latch post and 1-1/2” between hinge post.
    • Hinges should be attached to a gate post

12. Gate installation
    • Attach striker bar to gate using provide button head screws
    • Thread the ½” hinge rod into the upper and lower inserts in the metal gate frame leaving approximately 1-1/2” from the edge of the gate to the bracket.
    • Determine proper height for gate
    • Attach hinges to gate post with 2-1/2” self-tapping screws provided (do not over tighten screws as this can crush the internal foam and make an indentation in the post)
    • Level the gate
    • Align the latch with the striker bar and attach the latch to end post with 2-1/2” self-tapping screws provided.

13. Install caps
    • Install post caps (caps are pressure fit, however a 3” stainless steel deck screw can be driven through the top of the cap into the middle of the post if desired)
Privacy Fence

Includes: Allegheny

<table>
<thead>
<tr>
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<th>3'</th>
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<th>6'</th>
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<tr>
<td>Bracket Location from top of post</td>
<td>38”</td>
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<td>74”</td>
<td>98”</td>
</tr>
</tbody>
</table>

POST HOLES 5 X 5 POSTS = 12"

DIG HOLES 48" DEEP OR TO FROST LINE

POST CENTERS 8 FT WIDE = 96"

98" Max

Support Bracket
Privacy Fence – Sherwood™ 4' and 6' High

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Determine gate location(s)
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at an end, gate, or corner post and work outward to determine proper fence height relative to ground. If there is a slope it is easier to begin at the top end and work your way downhill

2. Dig Holes
   • Dig holes 48” deep
     - Hole size for 5 x 5 posts = approximately 12”
   • Clean holes and check for straight walls

3. Install Panel Brackets (note brackets come attached to the tip of fence posts)
   • Determine height of bracket from top of post
   • Attach bracket to post with #14 hex washer head self-tapping screw
   • A template can speed attachment for level installations

4. Cutting Down Posts (if required)
   • Measure height from top of post
   • Cut off bottom of post with metal cutting blade
   • Never cut the top of the post

5. Setting Posts
   • Insert post and 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

6. Spacing Posts
   • Use steel stiffener from panel (95° – 8’)
   • Place stiffener between posts
   • Set post (leave spacer in place for one hour minimum)
   • Set 3 to 4 posts with stiffeners as spacers, then advance them one at a time starting with the first stiffener

7. Install Fence Panels
   • Check to ensure top and bottom rails have stiffeners. They come installed, however may have been removed to use as spacers when setting posts
   • Lift panel to approximately 4’ off ground
   • Insert panel into channel on first post
   • Flex the next post until the channel will receive panel
   • Ease panel down onto fence brackets

8. Secure Fence Panels
   • Panels must be attached to end, gate, and corner post with one fastener per panel
   • To prevent unauthorized panel removal, you can attach one end of each panel into the post with one fastener
   • Never attach both ends of a panel to posts

9. Cutting Panels (if required)
   • Remove steel stiffeners from panel
   • Determine distance between posts from inside of channel to inside of channel
   • Cut stiffeners to that width
   • Measure and mark panel ½” shorter than stiffeners (this is needed for expansion and contraction of panel)
   • Cut panel
   • NOTE: 6 ft panel includes vertical steel insert in center of panel.

10. Gate Openings
    • Post spacing is critical. The ideal spacing is 1” on latch post and 1-1/2’ between hinge post
    • Hinges should be attached to a gate post

11. Gate Installation
    • Attach striker bar to gate using provide button head screws
    • Thread the ½’ hinge rod into the upper and lower inserts in the metal gate frame leaving approximately 1-1/2” from the edge of the gate to the bracket.
    • Determine proper height for gate
    • Attach hinges to gate post with 2-1/2’ self-tapping screws provided (do not over tighten screws as this can crush the internal foam and make an indentation in the post
    • Level the gate
    • Align the latch with the striker bar and attach the latch to end post with 2-1/2’ self-tapping screws provided.

12. Install Caps
    • Install post caps (caps are pressure fit, however a 3’ deck screw can be driven through the top of the cap into the middle of the post if desired)
Privacy Fence

Includes: Sherwood

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<table>
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<tr>
<th>Center to Center Post Dimensions for 6ft</th>
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</thead>
<tbody>
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</tr>
<tr>
<td>Line</td>
</tr>
<tr>
<td>Corner</td>
</tr>
</tbody>
</table>

Support Bracket

POST CENTERS
6 FT WIDE = 96" 6 FT WIDE = SEE CHART BELOW

POST HOLES
5 X 5 POSTS = 12"

DIG HOLES 30" DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12"
Privacy Fence – Sherwood™ 8’ High

1. Getting Started
   • Be sure to call underground (811) prior to digging
   • Determine gate location(s)
   • Stake out the fence line
   • Space and mark post hole locations for gate and sections (spacer bar/template may be useful)
   • Start at an end, gate, or corner post and work outward to determine proper fence height relative to ground. If there is a slope it is easier to begin at the top end and work your way downhill

2. Dig Holes
   • a. Dig holes 48" deep
      - Hole size for 5 x 5 posts = approximately 12"
   • Clean holes and check for straight walls

3. Install Panel Brackets (note brackets come attached to the tip of fence posts)
   • Determine height of bracket from top of post
   • Attach bracket to post with #14 hex washer head self-tapping screw
   • A template can speed attachment for level installations

4. Cutting Down Posts (if required)
   • Measure height from top of post
   • Cut off bottom of post with metal cutting blade
   • Never cut the top of the post

5. Setting Posts
   • Insert post and 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

6. Spacing Posts
   • Use steel stiffener from panel (95’ – 8’)
   • Place stiffener between posts
   • Set post (leave spacer in place for one hour minimum)
   • Set 3 to 4 posts with stiffeners as spacers, then advance them one at a time starting with the first stiffener

7. Install Bottom Fence Panels
   • Check to ensure top and bottom rails have stiffeners. They come installed, however may have been removed to use as spacers when setting posts
   • Lift panel and insert into post channels
   • Ease panel down onto post brackets
   Note: Be certain that the 2’ high rail is on top of the bottom panel

8. Install Top Panel
   • Lift panel and insert into post channels
   • Ease panel down onto bottom panel
   Note: Be certain the 2’ high rail is on the bottom of the top panel
   Tip: When installing panels, insert a short piece of 1-3/8” pipe into both ends of the panel to use as handles. 2x6 wood blocks can be used to support panel while lowering.

9. Secure Fence Panels
   • Panels must be attached to end and gate post with one fastener per panel
   • To prevent unauthorized panel removal, you can attach one end of each panel into the post with one fastener
   • Never attach both ends of a panel to posts

10. Cutting Panels (if required)
    • Remove steel stiffeners from panel
    • Determine distance between posts from inside of channel to inside of channel
    • Cut stiffeners to that width
    • Measure and mark panel ½” shorter than stiffeners (this is needed for expansion and contraction of panel)
    • Cut panel
    • A cut panel bracket is required on top and bottom cut panels.
    Tip: Pinning the cut panel bracket in place will help with installation (#12 x 1” pan head screw is recommended)

11. Gate Openings
    • Post spacing is critical. The ideal spacing is 1” on latch post and 1-1/2” between hinge post
    • Hinges should be attached to a gate post

12. Gate Installation
    • Attach striker bar to gate using provide button head screws
    • Thread the ½” hinge rod into the upper and lower inserts in the metal gate frame leaving approximately 1-1/2” from the edge of the gate to the bracket.
    • Determine proper height for gate
    • Attach hinges to gate post with 2-1/2” self-tapping screws provided (do not over tighten screws as this can crush the internal foam and make an indentation in the post
    • Level the gate
    • Align the latch with the striker bar and attach the latch to end post with 2-1/2” self-tapping screws provided.

13. Install Caps
    • Install post caps (caps are pressure fit, however a 3’ deck screw can be driven through the top of the cap into the middle of the post if desired)
Privacy Fence

Includes: Sherwood

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<td>74&quot;</td>
<td>98&quot;</td>
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</table>
Privacy Fence – Brookline, Brookline with CertaGrain® 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
   • 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

* 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: Brookline
Brookline with CertaGrain® Texture

**ALLOW CLEARANCE FOR GATE SWING**

- ALLOW 1" FOR HINGE
- ALLOW 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 = 72"
- POST HOLES 5 X 5 POSTS = 12"

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

INSTALL PICKETS WITH GROOVE SIDE DOWN*

* CHANGING PICKET ORIENTATION CAN AFFECT HORIZONTAL ALIGNMENT OF FENCE PANELS.

HOLD TOP HOLES IN POST WITH LOCK RING

DIG HOLES 30" DEEP OR TO FROST LINE

POST HOLES 5 X 2 POSTS = 12"

END CHANNEL

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

ATTACH END CHANNEL TO POST WITH 4 SCREWS

**EMBEDMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT**

MINIMUM 10" INSERT REQUIRED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONES SECTION R4003.1.2.1 OF THE FLORIDA BUILDING CODE

MINIMUM 106" 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>
<td>30&quot;</td>
<td>97&quot;</td>
</tr>
<tr>
<td>B</td>
<td>24&quot;</td>
<td>86&quot;</td>
</tr>
<tr>
<td>C</td>
<td>36&quot;</td>
<td>88&quot;</td>
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<td>C</td>
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<tr>
<td>C</td>
<td>30&quot;</td>
<td>75&quot;</td>
</tr>
<tr>
<td>D</td>
<td>30&quot;</td>
<td>56&quot;</td>
</tr>
</tbody>
</table>

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

**ATTACH END CHANNEL TO POST**

**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**

**CONCRETE 3000 P.S.I. MINIMUM**

**FEATURES WINDZONE™ PERFORMANCE**

Stepping Recommended
Privacy Fence – Chesterfield and Chesterfield with CertaGrain® 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, Frontier 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
         - 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: Chesterfield
Chesterfield with CertaGrain® Texture

**EMBEDMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT**

- MINIMUM 48” INSERT REQUIRED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONES SECTION R4003.1.2.1 OF THE FLORIDA BUILDING CODE

**MAXIMUM POST SPACING AND FOOTING DIMENSIONS**

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</tr>
<tr>
<td>C</td>
<td>30”</td>
<td>88”</td>
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<td>D</td>
<td>30”</td>
<td>75”</td>
</tr>
<tr>
<td>D</td>
<td>30”</td>
<td>56”</td>
</tr>
</tbody>
</table>

**CONCRETE 3000 P.S.I. MINIMUM**

**ADVANCED WINDZONE™ PERFORMANCE**

- **POST SUPPORT OPTIONS:**
  - INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR RASHER, CLEANER INSTALLATION
  - USE (2) PIECES OF 1/2” REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSITE CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS

**POST CENTERS**

- 5 X 5 POSTS = 91”

**DIG HOLES**

- 30” DEEP OR TO FROST LINE

**END CHANNEL**

- ALLOW CLEARANCE FOR GATE SWING

**HOLD TOP RAILS IN POST WITH LOCK RING**

**HOLD BOTTOM RAILS IN POST WITH LOCK RING**

- ATTACH END CHANNEL TO POST WITH 4 SCREWS

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

**POST HOLE**

- 3 X 5 POSTS = 12”

- **POST SUPPORT OPTIONS:**
  - INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR RASHER, CLEANER INSTALLATION
  - USE (2) PIECES OF 1/2” REBAR IN HINGE, LATCH AND END POSTS. POSITION REBAR IN OPPOSITE CORNERS OF EACH POST WITH REBAR SEPARATOR CLIPS

**TOP SOIL**

- GROUND LEVEL
Privacy Fence – Chesterfield with Huntington Accent, Chesterfield with Westminster Accent

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
   • Insert lock ring in each end of rail
   • 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

HOLD TOP RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE FOR GATE SWING

POST HOLES 5 X 5 POSTS = 12"

POST CENTERS 5 X 5 POSTS = 97"

DIG HOLES 30" DEEP OR TO FROST LINE

HOLD BOTTOM RAILS IN POST WITH LOCK RING

TO ACHIEVE THIS SCALLOP:
- CUT 1" OFF BOTTOM OF 3RD PICKET
- CUT 2" OFF BOTTOM OF 4TH PICKET

WESTMINSTER HUNTINGTON

END CHANNEL

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

POST SUPPORT OPTIONS:

POST CENTERS 5 X 5 POSTS = 97"

DIG HOLES 30" DEEP OR TO FROST LINE

HOLD BOTTOM RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE FOR GATE SWING

POST HOLES 5 X 5 POSTS = 12"

WESTMINSTER HUNTINGTON

END CHANNEL

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

POST SUPPORT OPTIONS:
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 each end of 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, 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
   • Insert lock ring in each end of rail
   • Depress lock ring tabs, insert mid-rail in post
   • Insert next row of pickets in mid-rail
   • Insert top rails over pickets
   • Insert lock ring in each end of rail
   • 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.
Privacy Fence

Includes: Galveston
Galveston with CertaGrain® Texture

ATTACH END CHANNEL TO POST WITH 4 SCREWS

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

HOLD TOP RAILS IN POST WITH LOCK RING

DIG HOLES 1/2’ DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12”

POST CENTERS 5 X 5 POSTS = 97”

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4” BELOW MID-RAIL.

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.

POST SUPPORT OPTIONS:

POST SUPPORT OPTIONS:

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

ATTACH END CHANNEL TO POST WITH 4 SCREWS

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

HOLD MIDDLE RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE
FOR GATE SWING

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

DIG HOLES 1/2’ DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12”

POST CENTERS 5 X 5 POSTS = 97”

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4” BELOW MID-RAIL.

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.

POST SUPPORT OPTIONS:

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

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

HOLD MIDDLE RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE
FOR GATE SWING

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

DIG HOLES 1/2’ DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12”

POST CENTERS 5 X 5 POSTS = 97”

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4” BELOW MID-RAIL.

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.

POST SUPPORT OPTIONS:

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

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

HOLD MIDDLE RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE
FOR GATE SWING

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

DIG HOLES 1/2’ DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12”

POST CENTERS 5 X 5 POSTS = 97”

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4” BELOW MID-RAIL.

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.

POST SUPPORT OPTIONS:

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

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

HOLD MIDDLE RAILS IN POST WITH LOCK RING

HOLD BOTTOM RAILS IN POST WITH LOCK RING

PICKETS FOR THIS STYLE ARE TONGUE AND GROOVE

END CHANNEL

ALLOW CLEARANCE
FOR GATE SWING

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

DIG HOLES 1/2’ DEEP OR TO FROST LINE

POST HOLES 5 X 5 POSTS = 12”

POST CENTERS 5 X 5 POSTS = 97”

LENGTH OF ALUMINUM INSERT SHOULD EXTEND FROM BOTTOM OF POSTS TO 4” BELOW MID-RAIL.

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.

POST SUPPORT OPTIONS:
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 each end of 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
   • Insert lock ring in each end of rail
   • 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
          - 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.

Dig holes 30" deep on to frost line

Allow clearance for gate swing

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

Hold top rails in post with lock ring

Hold bottom rails in post with lock ring

Post centers 5 x 5 posts = 97"
Accent Fence

Includes: Victorian/Spindle, Lattice

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

**Victorian/Spindle**
- 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

**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

**SHOWN WITH CHESTERFIELD FENCE**

![Diagram of Accent Fence with Chesterfield Fence](image_url)
Includes: Lattice – New Lexington

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
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

Curved Rail
Includes: Concave, Convex, "S" Curve and 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
   - 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

- Allow 1-1/2” gap on hinge side of gate and 1-1/4” on latch side of gate hardware.
- Stagger rail ends for greater strength.
- Attach braces on both sides of gate in identical positions.
- Insert aluminum gate post stiffener inside post for faster, cleaner installation.
- Insert (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 Hole:
- 5 x 5 Posts = 12”

Dig Holes:
- 30” deep or to frost line

Post Centers:
- 5 x 5 Posts = 96”

Hold Rails in Post:
- With lock rings
- Depress lock ring tabs
- Insert in rails and release
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

- Hold rails in post with lock ring. Depress lock ring tabs and insert in rail and release.
- Stagger rail ends for greater strength.
- Attach braces on both sides of gate in identical positions.
- Insert aluminum gate post stiffener inside post for faster, cleaner installation.
- Dig holes 30” deep or to frost line.
- Dig holes 5 x 5 posts = 12”
- Post holes 5 x 5 posts = 96”
- Post centers white. 5 x 5 posts = 96”
- Arctic blend, Brazilian blend, Sierra blend, Weathered blend. 5 x 5 posts = 72”
- Allow 1-1/2” gap on hinge side of gate and 1-1/4” on latch side of gate hardware.
- 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 – Extruded**

### 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

### 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

### 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.

- Two methods exist for installing a fence on variable sloping terrain — stepping and racking
- For either method, divide slope evenly into all sections
NOTE: Always open bottom of top hole and top of bottom hole to maintain proper fence height.

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.

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.

- 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
Variable Terrain Installation – Molded

Installation on sloping terrain is similar to that on flat terrain. Professionals typically use a laser to shoot and obtain a grade.

• Set the first post on the uphill side. Post placement is important! Posts are typically placed at the point where the slope changes, whether in a peak or a valley.

• The panel support brackets should be pre-attached at 38" for 3ft, 50" for 4ft, 74" for 6ft, and can receive the down hill side of the panel at that height. Once the slope and the drop per panel have been determined, the bracket on the uphill side should be adjusted to the proper height. Panels will always be set level even on a slope.

• Set the second post and make any adjustments to bracket position.

• Use steel stiffeners for spacing to set the distance for each succeeding post.

• Use a level on the stiffener to ensure panels will be level when installed.

• For more information see illustration A and B

• Please visit our website for a full installation video
  www.certainteed.com/fence/simtek-installation-videos/

NOTE: A 6’ wide panel can be stepped as much as 12” per panel. For steeper elevations you can use our 142” long post. For more details and instructions call your sales representative.
Stepping Method

With the stepping method, panels remain horizontal and posts are extended to accommodate the variance in terrain. Longer post may be required. (A 6’ wide panel can be stepped up to 12” per panel using our 102” post. For steeper elevations our 142” post is required.)

1. Attach panel brackets on one side of post at standard height
2. Determine step and attach panel bracket to other side of post
3. Set first post on the uphill side and work your way down
4. Just as with level installation use panel stiffeners as spacers to set next post
5. Level stiffener and adjust bracket if necessary

CAUTION: Molded fence panels are not engineered for use as a retaining wall. If burying the bottom of a panel the ground level must be the same on both sides.
Concrete Installation – Molded

Concrete Install - Molded

Molded fence panels can be installed on top of an 8’ minimum width (up to 6’h) or 10’ minimum width (up to 8’h) poured concrete wall or on flat concrete using our concrete mounting brackets. Concrete mounts are available for end, gate, line, and corner posts along with post skirts for a clean look.

1. Cutting down post
   a. Measure height from top of post
   b. Cut off bottom of post with metal cutting blade
   c. Never cut the top of the post

2. Install concrete mounting brackets
   a. Drill all four holes through the pre-drilled holes in the steel plate
   b. Install concrete mounts to concrete with fasteners with at least 4,000 lbs. shear strength (minimum bolt size is 1/2” x 4-1/2”)
   c. Shim to level if necessary

3. Install post skirts

4. Install post to concrete mounting bracket
   a. attached to concrete mounting bracket with three screws
   (line post - insert three staggered screws on each side of the strap into the pre-drilled holes)

5. Install fence panels and post caps

NOTE: Because panels normally sit directly on the wall or concrete surface panel brackets are unnecessary when using concrete mounts.
Retaining Wall

6ft. Walls
Bufftech Molded Fence can be installed on top of an 8” min width poured concrete wall or on flat concrete by using concrete mounting brackets

Minimum Bolt size 1/2” x 4.5”

8ft. Walls
Bufftech Molded Fence can be installed on top of an 10’ min width poured concrete wall or on flat concrete by using concrete mounting brackets

Use epoxy anchors instead of wedge anchors for gate shoe

Line Shoe
End Shoe
Corner Shoe
Gate Shoe

Line Shoe Skirt
End Shoe Skirt
Corner Shoe Skirt
Gate Shoe Skirt
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**

<table>
<thead>
<tr>
<th>A</th>
<th>ROUTING TEMPLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>1-1/8” TEMPLATE SPACER PLATE</td>
</tr>
<tr>
<td>C</td>
<td>1-1/2” TEMPLATE SPACER PLATE</td>
</tr>
<tr>
<td>D</td>
<td>1/4” -20 X 6” BOLTS</td>
</tr>
<tr>
<td>E</td>
<td>3/8’ OD PLEXI TUBE</td>
</tr>
<tr>
<td>F</td>
<td>1/4” FLAT WASHER</td>
</tr>
<tr>
<td>G</td>
<td>1/4” -20 WING NUT</td>
</tr>
<tr>
<td>H</td>
<td>3/8” ROUTER BIT W/ 1/4” SHANK</td>
</tr>
<tr>
<td>I</td>
<td>5/8” BEARING W/ 1/4” ID OPENING</td>
</tr>
</tbody>
</table>

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