Semi-Private Fence
Columbia

1. Getting Started
   • Be sure to call underground 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 = 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" 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 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

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 and working along
   • 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 mounted 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. Concrete and rebar
         - Use two pieces of 1/2" rebar in each hinge, latch and end post
         - Rebar should extend from the bottom for the hole to 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
      B. 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

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

For accents, see page 30
Semi-Private Fence

Includes: Columbia

- DIG HOLES 30" DEEP OR TO FROST LINE
- ALLOW CLEARANCE FOR GATE SWING
- HOLD BOTTOM RAILS IN POST WITH A BULLET CLIP
- ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM
- POST CENTERS 5 X 5 POSTS = 96-1/8"
- POST HOLES 5 X 5 posts = 12"
- LOCK TOP RAIL IN POST WITH #8 X 3/4" SCREW

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

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

ENDEMMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT
- MINIMUM 48" INSERT REQUIRED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE SECTION A-A-1.2.1 OF THE FLORIDA BUILDING CODE

SECTION A-A LINE POST STIFFENER ALUMINUM INSERT
- CONCRETE S/L 4" MINIMUM
- GROUND LEVEL 12" MINIMUM
- TOP SOIL 3" MINIMUM
- GRAVEL FILL 2" MINIMUM

FEATUREING WINDBREAKER TECHNOLOGY
Semi-Private Fence
Imperial

1. Getting Started
- Be sure to call underground 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 = 12”
  - hole size for 4 x 4 posts = 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” 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
- Depress bullet clip, insert rail in post
- Bullet clip will drop down and 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 middle rail (if applicable) in post with large holes facing down
- Insert pickets through holes in middle rail
- Insert pickets in bottom rail. Temporarily remove middle rail ends from post. Insert top rail over pickets
- Insert middle 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 middle 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 mounted 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. 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 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
  B. 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

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

Includes: Imperial

- HOLD BOTTOM RAIL IN POSITION WITH BULLET CLIPS
- DIG HOLES 30" DEEP OR TO FROST LINE
- ALLOW CLEARANCE FOR GATE SWING
- ALLOW 1" FOR HINGE AND 3/4" FOR LATCH SYSTEM

POST SUPPORT OPTIONS
- REBAR
- SEPARATOR CLIPS
- 1/2" REBAR
- 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
- INSERT ALUMINUM GATE POST STIFFENER INSIDE POST FOR FASTER, CLEANER INSTALLATION

SECURE MIDDLE RAIL TO PICKETS WITH (2) #8 X 1-1/2" SCREWS, CAPS AND WASHERS

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

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

EMBEDMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT

COMPLIES WITH THE HIGH VELOCITY ALUMINUM ZONES SECTION R44003.1.2.1 OF THE FLORIDA BUILDING CODE. A STEEL INSERT MUST BE ADDED TO THE TOP RAIL, AND THE CENTER POST MUST BE ATTACHED TO THE TOP AND BOTTOM RAIL WITH (2) #8 X 1-1/2" SCREWS, CAPS AND WASHERS.

SECTION A-A LINE POST STIFFENER ALUMINUM INSERT

CONCRETE 3000 PSI. MINIMUM

FEATURES WINDBREAKER TECHNOLOGY

EQUIPMENT DETAIL FOR OPTIONAL LINE POST STIFFENER ALUMINUM INSERT

GROUND LEVEL

TOP SOIL

ALLEMUM INSERT

CONCRETE, 3000 PSI MINIMUM

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Semi-Private Fence
Millbrook

1. Getting Started
• Be sure to call underground 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 = 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” 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
• Tabs will recoil to post and 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 middle rail in post with large holes facing down
• Insert pickets through holes in middle rail
• Insert pickets in bottom rail. Temporarily remove middle rail ends from post. Insert top rail over pickets
• Insert middle 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 middle 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 mounted 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. 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 12” from the top of the post
    - Hole 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
  B. 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

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

Includes: Millbrook