Post & Rail
Crossbuck 2-Rail, 3-Rail and 4-Rail

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
- 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/toprail 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 mounted 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. 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 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

9. Install Caps

- Install post caps by pressing in place inside post

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