



Designation: F 1999 – 00

Standard Practice for Installation of Rigid Poly(Vinyl Chloride) (PVC) Fence Systems¹

This standard is issued under the fixed designation F 1999; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice covers the minimum requirement for and methods of installation for rigid poly(vinyl chloride) (PVC) fencing systems and fence accessories in areas where the maximum frost penetration does not exceed 30 in. (76 cm). In all cases, refer also to the specific manufacturer's instructions for installation.

1.2 This practice is intended to guide those responsible for or concerned with installation of rigid (PVC) fence systems.

1.3 This practice does not preclude any test method that is proven to give equal or better performance under any weather, soil, or frost conditions.

1.4 End-use and applicable code requirements shall be considered in the choice of fence style, spacing, height, and installation method.

1.4.1 Paddock fencing for livestock may need to be more durable than perimeter fence.

1.4.2 Residential fence styles may not be designed for balcony or guardrail use.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are for information only.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

A 706/A 706M Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement²

D 2564 Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems³

¹ This practice is under the jurisdiction of ASTM Committee F-14 on Fences and is the direct responsibility of Subcommittee F14.30 on Color. Current edition approved Jan. 10, 2000. Published April 2000.

² *Annual Book of ASTM Standards*, Vol 01.04.

³ *Annual Book of ASTM Standards*, Vol 08.04.

F 964 Specification for Rigid Poly(Vinyl Chloride) (PVC) Exterior Profiles Used for Fencing⁴

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *clip*—a component used to lock rails into routed posts.

3.1.2 *end cap*—a component to cover the open end of a rail or other extrusion.

3.1.3 *exterior profile*—a rigid poly(vinyl chloride) (PVC) extrusion that conforms to Specification F 964.

3.1.4 *gate*—a hinged panel for passage into or out of a fenced area.

3.1.5 *hinge post*—the post to which a gate is attached.

3.1.6 *notch*—a method of creating a tab used to lock rails into routed posts.

3.1.7 *outside brackets*—components used to fasten rails to the outside of posts, when routed posts are not used.

3.1.8 *picket*—a vertical member in a fence panel, between or attached to the horizontal members.

3.1.9 *picket cap*—a component used to cover or decorate the open end(s) of picket.

3.1.10 *post cap*—a component used to cover the top of a post.

3.1.11 *posts*—the vertical structural support members of the fence.

3.1.12 *rails*—the horizontal members which insert into or attach to the posts. They serve as the sole sections between posts or as back rails to which picket verticals are attached.

3.1.13 *routed posts*—posts with holes cut into them to allow rails to be inserted.

3.1.14 *terminal post*—the end or last vertical structural support member of the fence.

4. Materials

4.1 *Exterior Profiles*, in accordance with Specification F 964.

4.2 *Solvent Cement*—Poly(Vinyl Chloride) (PVC) solvent cement in accordance with Specification D 2564.

⁴ *Annual Book of ASTM Standards*, Vol 01.06.