
SECTION 32 31 23 - PLASTIC GATES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Sections included under Division 0 & Division 1 are included as a part of this Section as though bound herein.
- B. Bidding and Contract Requirements of the Specifications and the Drawings govern the Work of this section. Provide materials, labor, equipment and services necessary to furnish, deliver and install work of this Section as shown on Drawings, as specified or as required by job conditions.
- C. Coordinate work with that of other trades affecting or affected by work of this Section and cooperate to assure the steady progress of the Work.

1.2 SUMMARY

- A. Section includes:
 - 1. Door 104.1
 - 2. Gates fabricated from PVC (polyvinyl chloride).
 - 3. Installation accessories and related components.

1.3 SUBMITTALS

- A. Product Data: For each product specified.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other Work.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Qualified by manufacturer to install manufacturer's products, and who has completed PVC fencing and gate installations similar in design, and extent to those indicated for this Project.
- B. Manufacturer Qualifications: Extrusions shall be produced in an ISO 9000 compliant facility.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Handling: Use care when unloading and moving components around the installation area so as to avoid scratching, marring or other damage to finish.

- D. Storage: Protect from exposure to harmful environmental conditions at temperature and humidity conditions recommended by manufacturer.

1.6 WARRANTY

- A. Manufacturer's standard written warranty agreeing to repair or replace fencing components that warp, rot, corrode, flake, peel, blister or show abnormal surface discoloration within twenty years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Royal Crown Limited
 2. UltraGuard
 3. CertainTeed Corp.
 4. Kroy Building Products
 5. Or Architect Approved equal.

2.2 MATERIALS

- A. Fencing components: Fabricated from PVC materials which are first-run, mono-extruded virgin materials homogeneous throughout the extruded wall of the profile.
- B. Profiles: Extruded from a rigid PVC formulation with an average level of 7% acrylic impact modifiers and 12 pph ultraviolet inhibitors.
- C. PVC: ASTM F964 "Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Exterior Profiles Used For Fencing and Railing", Class 13344 or higher, manufactured in accordance with ASTM D1784 "Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds."

2.3 GATES

- A. Type and Style: Pre-assembled and compatible with specified fence style.
- B. Hardware: Refer to Section 08 71 00 Door hardware. Gate manufacturer to include stainless steel self-closing hinge hardware.
- C. Gate Post Insert: Exterior treated wood clad with PVC.
- D. Concealed blocking: Furnish exterior treated wood blocking for stile, rail and the mounting of all hardware.

2.4 ACCESSORIES

- A. Provide all clips, anchors, locks, fasteners and related accessory components to comply with the installation requirements of fence manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine area of fence installation with installer present for compliance with requirements.
 - 1. Final grading is completed.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Indicate locations of utilities, lawn sprinkler system, underground structures, and property markers. Stake locations of fence lines, gates, corner posts and end posts.
- B. At gate locations, grade soil to provide a surface as flat and level as practical between the hinged and latch posts and within the swing area of the gate.

3.3 INSTALLATION

- A. General:
 - 1. Comply with manufacturer's current recommendations, literature, product information and written instructions, and retain a copy of these documents on site at all times for reference while work is underway.
 - 2. Comply with requirements of ASTM F1999 "Standard Practice for Installation of Rigid Poly (Vinyl Chloride) (PVC) Fence Systems."
 - 3. Install fence inside property line.
 - 4. Accommodate normal material expansion and contraction by cutting fence components to fit loosely into each other.

3.4 GATE INSTALLATION

- A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference.

3.5 ADJUSTMENT

- A. Adjust gate to operate smoothly, easily, and free of binding, excessive deflection, or distortion. Confirm that latches and locks engage accurately and securely.

3.6 CLEANING

- A. Remove ordinary dirt and mud with a garden hose. If necessary, use a non-abrasive household cleaner to remove residue and rinse thoroughly with a hose. Do not scrub, scrape, abrade or mar surface.

END OF SECTION