

INNOVATION™

ARCHITECTURAL STEEL & ALUMINUM FENCE SYSTEMS



XCEL®

**CLASSIC SQUARE TUBE DESIGN
STANDARD, ALL BIAS-ABLE SECTIONS
CLEAN, SIMPLE, & COST-EFFECTIVE.**

Advanced Powder Coating Technology
ISO 9001 CERTIFIED MANUFACTURER
U.S. PATENT #7,025,335 | www.xcellfence.com

Residential ▪ Commercial ▪ **Industrial**



XCEL Fence, Inc. 2006 Ornamental Fence Lineup

LITE™ • Residential

3'H - 6'H x 8'Wide

G60 Galvanized H.D. Steel: 50,000 PSI: (ASTM A653)
SupremeCoat™ Finish
Multi-stage pretreatment/wash (with zinc phosphate)
Glossy Polyester TGIC powder top coat finish
11-Year Limited Warranty
Standard Color: **BLACK**



PLUS™ • Commercial & Industrial

4'H - 10'H x 8'Wide

G90 Galvanized H.D. Steel: 58,000 PSI: (ASTM A653)
SupraCoat™ Finish
Multi-stage pretreatment/wash (with zinc phosphate)
Zinc-rich Epoxy Primer
Glossy Polyester TGIC powder top coat finish
21-Year Limited Warranty
Standard Color: **BLACK**



ARETÉ™ • Residential & Commercial

3'H - 6'H x 6'Wide

6063-T5 H.D. Aluminum Alloy: (ASTM B221)
SupremeCoat™ Finish
Multi-stage pretreatment/wash
Glossy Polyester TGIC powder top coat finish
Lifetime Limited Warranty
Standard Colors: **BLACK, WHITE (BONE)**



- ◆ 3 Material Grades
- ◆ 5 Rail Systems
- ◆ 8 Picket Styles

ALPHA-2
2-Rail System



BRAVO-3
3-Rail System

CHARLIE-3R
3-Rail System w/Rings



DELTA-4R
4-Rail System w/Rings



ECHO-4
4-Rail System



INNOVATION™ ARCHITECTURAL STEEL & ALUMINUM FENCING

Dedicated To The Highest Standards In Quality, Beauty, & Efficiency.



- ◆ NON-WELDED
- ◆ POWDER COATED
- ◆ ZERO MAINTAINENCE
- ◆ FASTEST ASSEMBLY
- ◆ COMPACT PACKAGING
- ◆ COST EFFECTIVE
- ◆ PATENTED DESIGN
- ◆ ISO 9001 RELIABILITY
- ◆ LIFETIME WARRANTY*
- ◆ PRE-GALVANIZED STEEL
SupremeCoat™ G-60
(Residential, 11-Yr.)
SupraCoat™ G-90
(Commercial, 21-Yr.)
- ◆ HIGH GRADE ALUMINUM
SupremeCoat™ T-5
(Residential, Lifetime)

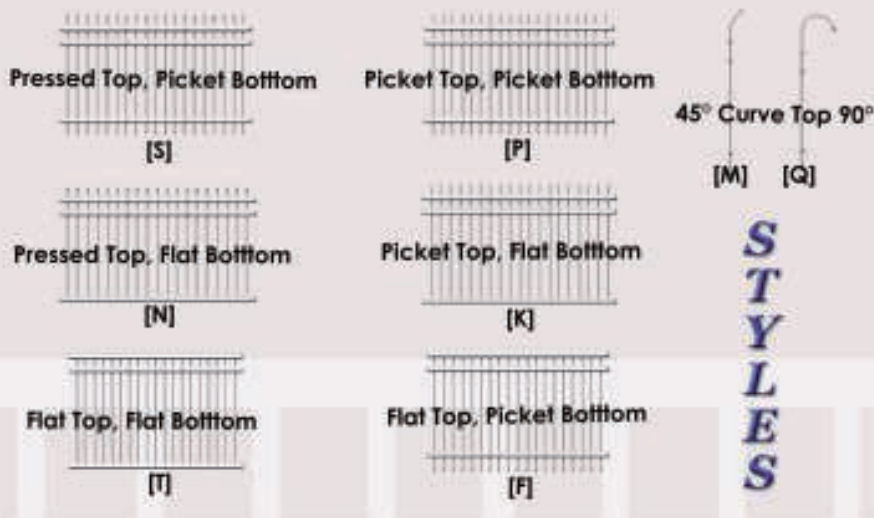
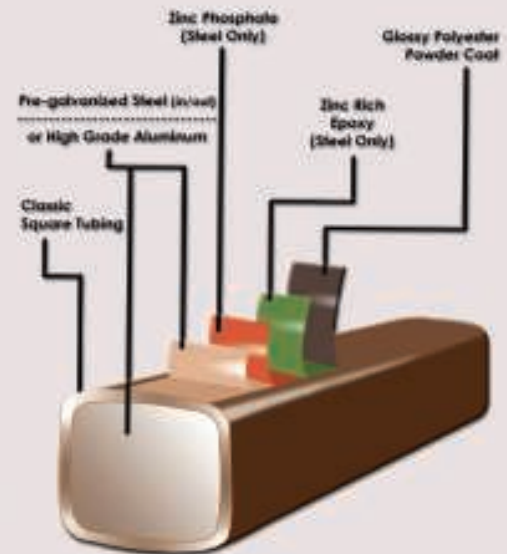
Whether you're looking for quality steel or aluminum fencing, there's nothing like a classic ornamental design, look, and feel. INNOVATION™, the latest in component ornamental fencing, was engineered to meet both the aesthetics and strengths demanded by the industry. From the smooth lines to its powder coated luster, INNOVATION™ fence systems possess an amazing beauty and finish like no other.

INNOVATION™ component fence systems are assembled by utilizing SecureSnap™, a patented locking mechanism, designed for the sole purpose of achieving maximum bias ability and security across every panel section. In addition to this unique design, all components undergo an advanced multistage surface treatment that includes a Polyester TGIC powder coating finish. Manufactured in XCEL's ISO 9001 certified facilities, INNOVATION™ ornamental fence systems provide up to a lifetime limited warranty. Contact XCEL today.

INNOVATION™

THE XCEL ADVANTAGE

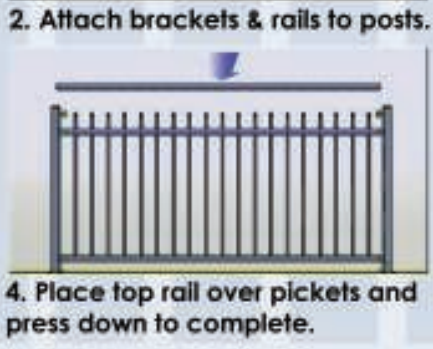
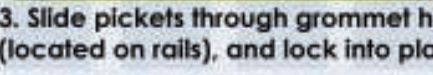
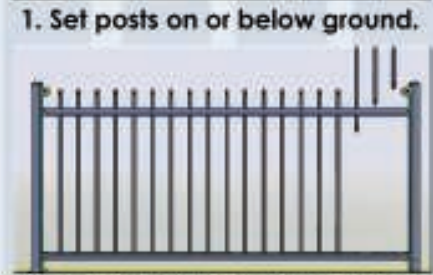
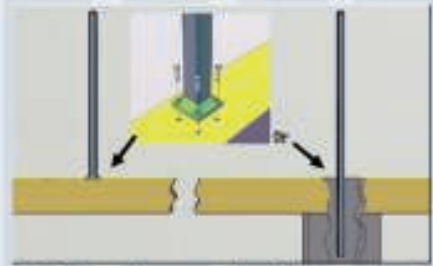
Through a rigorous multi-stage surface treatment on pre-galvanized steel or high-grade aluminum, all fence components include a baked on polyester TGIC powder coated finish that makes for a stronger, more fade & scratch resistant surface. Highly resistant to corrosion, peeling, and cracking, XCEL offers a life-time limited warranty on the latest ARETÉ™ aluminum fence systems and up to a 21-year limited warranty on PLUS™ pre-galvanized steel fence systems. XCEL is an ISO 9001 certified manufacturer and is currently the world's largest mass producer of unique component ornamental fence systems.



Over 40 different variations, along with a wide selection of heights and optional add-on accessories. Available in either pre-assembled or unassembled sections.

Versatile: Since components are interchangeable, similar rails can be combined with different picket styles to create a broader range of fence configurations.

If you've ever heard that good fences make good neighbors, you should also know that INNOVATION™ was engineered specifically with the consumer in mind. What sets INNOVATION™ apart from other fence systems is not just aesthetics or coating superiority, but rather the overall efficiency and versatility of a true revolutionary design. Non-welded, powder coated, and all bias-able (up to 36" rack on 2-Rail, Style "T").



GATES & OPTIONAL ACCESSORIES



Innovation™ • Residential Gate Kit

G60 Galvanized H.D. Steel or 6063-T5 High Grade Aluminum
SupremeCoat™ Finish

Includes: Gate Ells, Gate Ends, Self-Closing Gate Hinges, Gate Latch
Maximum 6' High x 8' Wide
Standard Color: BLACK

Innovation™ • Commercial / Industrial Gates

G90 Galvanized H.D. Steel
SupraCoat™ Finish

Custom-built, available on special order only.
Standard Color: BLACK

Aluminum Finials



A C C E S S O R I E S



45° Angle Bracket
Standard 90°/180° Bracket
Aluminum Sleeve Floor Flange



LITE™ CHARLIE-3R, STYLE "T" (3-Rail, Flat Top & Flat Bottom with Aluminum Rings)

CONSTRUCTION SPECIFICATIONS

ORNAMENTAL METAL FENCING SYSTEM

SECTION 32 31 19 (MasterFormat, 1995 Edition, 02825/C, Abbreviated)

INNOVATION PLUS™ - Commercial & Industrial Grade

PART 1 - GENERAL

1.01 SUMMARY

Section includes: Pre-finished decorative metal picket fence to be furnished by a contractor, who shall provide all labor, materials required for installation at _____ (project site).

1.02 REFERENCES

ASTM A653, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process. ASTM A787, Standard Specification for Electric-Resistance-Welded Metallic-Coated Carbon Steel Mechanical Tubing. ASTM B117, Standard Practice for Operating Salt Spray (Fog) Apparatus. ASTM D523, Standard Test Method for Specular Gloss. ASTM D822, Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings. ASTM D1654, Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments. ASTM D2244, Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates. ASTM D2794, Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact). ASTM D3359, Standard Test Methods for Measuring Adhesion by Tape Test.

1.03 PERFORMANCE REQUIREMENTS

A. Fence panels shall be capable of supporting the following loads applied vertically at the center of the top rail without permanent deformation.

1. PLUS™ Commercial Steel: 400 pound (1780 N)
2. PLUS™ Industrial Steel: 600 pound (2670 N)

1.04 SUBMITTALS

The manufacturer's submittal documents shall be provided prior to delivery.

1.05 QUALITY ASSURANCE

The contractor shall be qualified with the knowledge and skills required to perform the type of construction while using the provided materials.

1.06 DELIVERY, STORAGE, AND HANDLING

The contractor shall inspect and verify shipment contents and store materials according to manufacturer's recommendations.

1.07 WARRANTY

A. Special Warranty: Prorated 21-Year limited warranty against defects in material and workmanship and against cracking, chipping, peeling, corroding, and blistering.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. XCEL Fence, Inc. 1931 Yeager Avenue, La Verne, CA 91750. Tel: (909) 392-0808 Fax: (909) 392-0999 E-mail: info@xcelfence.com Website: www.xcelfence.com

B. Material Grade, INNOVATION™:

1. PLUS™ Steel, Commercial Grade.
2. PLUS™ Steel, Industrial Grade.

2.02 MATERIALS

- A. PLUS™ Steel, Commercial & Industrial Grade
1. Galvanized Steel Sheet: ASTM A653, G90 designation.
 - a. Tensile Strength: 58,000 psi (400 MPa) minimum.
 - b. Yield Strength: 50,000 psi [344 MPa] minimum.

2.03 COMPONENTS

- A. Line, Corner, End, and Gate Posts:
1. INNOVATION PLUS™ Steel, Commercial Grade.
 - a. 2-1/2 inches by 2-1/2 inches, 12 gauge ASTM A787 steel tubing, include formed steel cap.
 2. INNOVATION PLUS™ Steel, Industrial Grade.
 - a. 3 inches by 3 inches, 12 gauges ASTM A787 steel tubing, include formed steel cap.
- B. Rails:
1. INNOVATION PLUS™ Steel, Commercial Grade.
 - a. 1-1/2 inches by 1-1/2 inches, 14 gauge ASTM A787 steel tubing with pre-punched square picket holes and factory installed grommets in rail tops.
 2. INNOVATION PLUS™ Steel, Industrial Grade.
 - a. 1-3/4 inches by 1-3/4 inches, 14 gauge ASTM A787 steel tubing with pre-punched square picket holes and factory installed grommets in rail tops.
- C. Pickets (Air Space: 3-15/16 inches):
1. INNOVATION PLUS™ Steel, Commercial Grade.
 - a. 3/4 inches by 3/4 inches, 16 gauge ASTM A787 steel tubing with factory installed, stainless steel, spring clips to secure pickets to rails.
 2. INNOVATION PLUS™ Steel, Industrial Grade.
 - a. 1 inch by 1 inch, 14 gauge ASTM A787 steel tubing with factory installed, stainless steel, spring clips to secure pickets to rails.

2.04 STYLE

The manufacturer's heights and styles of picket variations shall be provided in the long form construction specifications available from manufacturer's website.

2.05 FABRICATION

A. Fence Panels: Fabricate pre-punched rail and picket components in a manner that allows panel sections to be installed on a [25 percent] [12.5 percent] change in grade over the length of the panel per manufacturer's included installation guide.

2.06 FINISH

- A. Finish metal components individually prior to assembly.
- B. Preparation: Multi-stage pretreatment including an alkaline wash, and zinc phosphate surface treatment.
- C. Shop Priming: Electrostatic applied zinc-rich epoxy coating, minimum 2 mils (0.0508 mm) thick.
- D. Shop Finishing: Electrostatic applied polyester color coat, minimum 2 mils (0.0508 mm) thick.
- E. Finished Coating Performance Requirements:
1. Adhesion: ASTM D3359, Method B.
 2. Corrosion Resistance: ASTM B117 and D1654.
 3. Impact Resistance: ASTM D2794.
 4. Weathering Resistance: ASTM D822, D2244, and D523, 60 Degree Method.
- F. Color: Black
- [Standard color as selected by Architect] [Custom color as selected by Architect].

PART 3 - EXECUTION

3.01 EXAMINATION

Examine earthwork and paved surface conditions where fencing is to be installed. Verify that soil is either firm undisturbed or properly compacted at post locations. Verify that sloped grades do not exceed manufacturer's biasable panel limitations. Verify property line locations, legal boundaries, and relative post placement. Coordinate with responsible entity to correct unsatisfactory conditions. Commencement of work by installer is acceptance of conditions.

3.02 PREPARATION

Stake fence layout including posts, gates, and terminal posts to be inside property lines. Note locations of underground utilities, irrigation systems, benchmarks, property monuments and other underground structures.

3.03 INSTALLATION

Install posts, rails, and pickets in accordance with manufacturer's installation drawings. Post Hole Excavation: Excavate holes to diameter and depth shown on shop drawings. Dispose of excavated soil off site unless otherwise approved by Architect. Post Setting: Set posts in holes and verify that posts are plumb, aligned, and at correct height and spacing per manufacturer's detailed installation instructions. Brace to maintain position until concrete is sufficiently cured. Protect post exposed above finished concrete line from concrete spatter. Place concrete in holes and tamp or vibrate to consolidate. Top of concrete at post shall be 2 inches (50 mm) above finished grade. Smooth top of footing and slope to grade. Post Setting with Flanges: Secure flange to surface in accordance with manufacturer's instructions and mount post over flange assuring a tight compression fit. Fence Installation: Rails: Secure to posts using manufacturer's standard brackets and fasteners. Pickets: Insert pickets into rails and verify that spring clips engage rails. Finish Installation Procedures: Remove concrete spatter protection from posts. Install post caps. Install finish. Touch-up damaged color coatings using galvanizing compound spray paint on bare metal surfaces followed by manufacturer supplied color touch-up kit.

3.04 CLEANING

Reference Section 01 74 00-Cleaning and Waste Management.

Note: Abbreviated form. Long format available online.

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