



Ornamental Aluminum Fence Installation Instructions



STOP! BEFORE YOU BEGIN



CHECK YOUR LOCAL ZONING LAWS - Local zoning laws and homeowners associations may regulate the location, style, and height of your fence. They may also require a permit sign-off beforehand.

CONTACT YOUR LOCAL UTILITY COMPANIES - You must let the utility company mark your property for electrical, gas, or water lines clearly to avoid puncturing any unseen underground utilities.

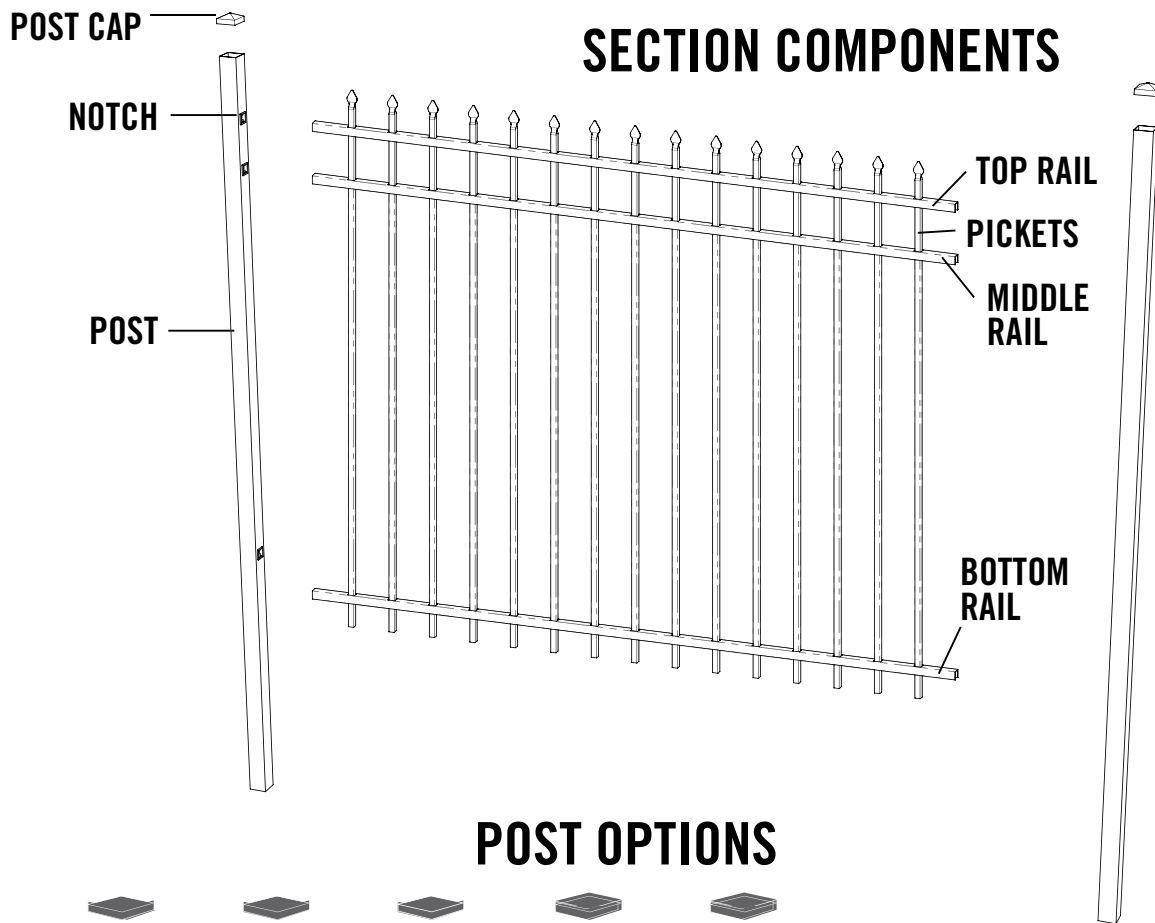
PAY TO MARK YOUR PROPERTY LINE - Being proactive will save you time and money while avoiding disputes with neighbors.

Items Needed to Complete Installation:

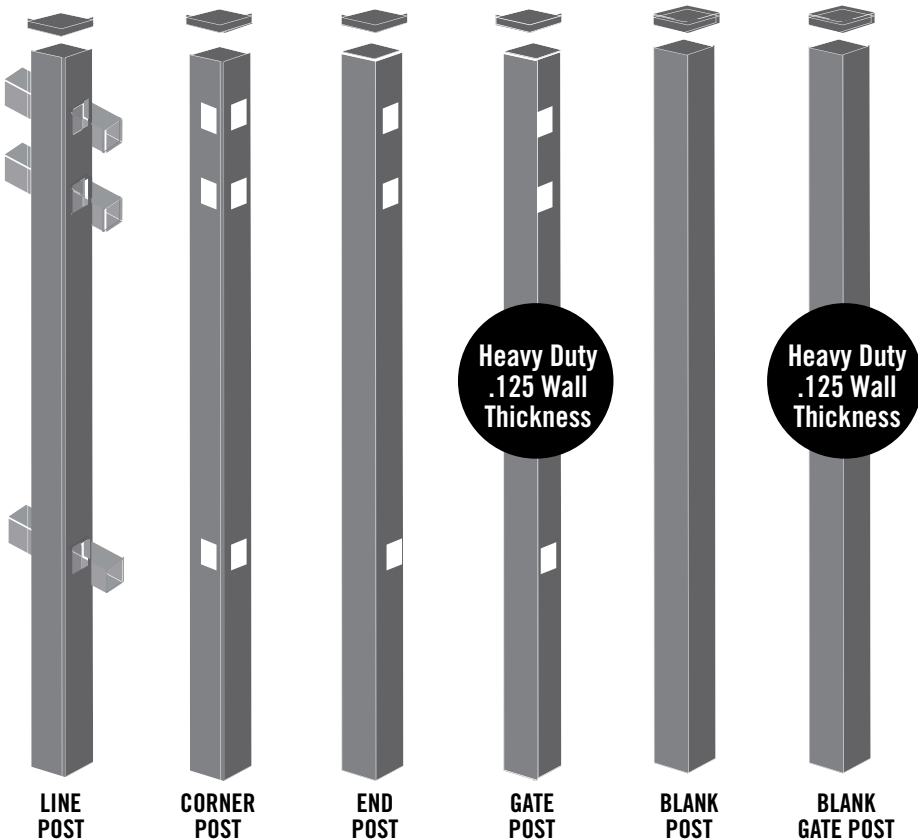
- Fence Sections, Gates, Posts, Hardware, and Accessories
- Concrete Post Mix
- Tools and Supplies - String, Stakes, Tape Measure, Post Hole Digger, Shovel, Level, Hacksaw, Rubber Mallet, Concrete Mix, Peastone

1-800-339-3362 • www.EasternOrnamentalFence.com

PRODUCT OVERVIEW



POST OPTIONS



- **Line Post:** Post with holes on two opposite sides to connect fence sections
- **Corner Post:** Used to connect two sections of the fence together to form a 90 degree angle
- **End Post:** Used to end a row of fence. Only one section of the fence will connect to the end post
- **Heavy Duty Gate Post:** Has a wall heavier than other posts to support the weight of a gate with attached hinges. Similar to an end post, the HD gate post only has holes on one side
- **Blank Post:** Has no holes
- **Blank Heavy Duty Gate Post:** Has no holes and can be used with hinges and latches

LET'S GET STARTED!

SKETCH PLAN AND CONFIRM MATERIAL REQUIREMENTS

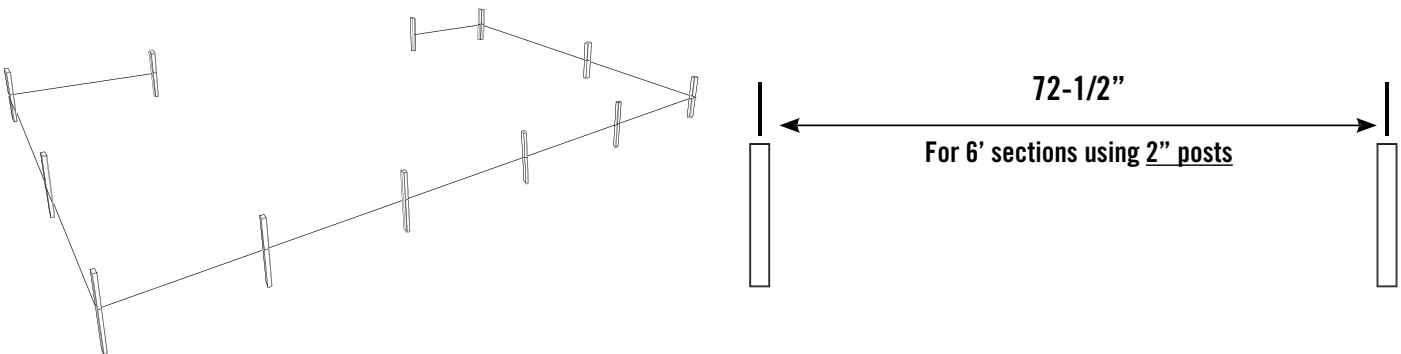
- 1) **First, sketch out your fence on paper** - This drawing will help you estimate materials and plan the location of corners and gates. Show the house, driveway, deck, and property lines. Then measure accurately with a tape measure and identify them on your sketch.
- 2) **Layout should show fence lines and gate locations**
- 3) **Determine the number of sections and posts that are required**
- 4) **Your gate opening should be the exact width of the description of the gate ordered** - For instance, a use a 48" opening for a 46.75" wide (4' wide) gate, and a 60" opening for a 58.75" (5'wide) gate.

INSTALLATION TIPS

- 1) **Gates need to be installed on level ground**
- 2) **Gates and fence panels should be installed 2" off the ground for lawn maintenance and trimming**
(Always check pool codes for minimum clearances)
- 3) **Separate and identify your posts** - The rails from the fence panels will be inserted into the pre-punched holes of the posts.

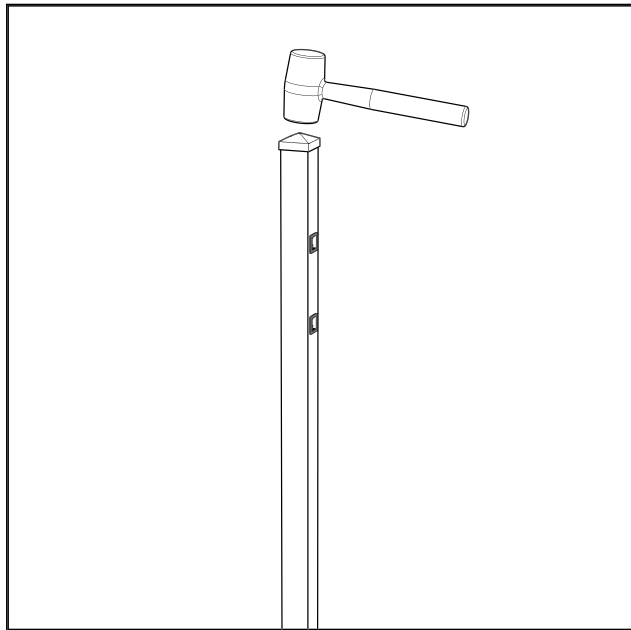
1 LAYOUT INSTALLATION

- 1) Using a worksheet as a guide, build your fence line by staking out the areas that you are enclosing.
- 2) Find out the location of each point where the end, corner, or gate posts will go and mark them with stakes.
- 3) To mark all the other posts: For 6' sections with 2" posts, from the center of an end point, measure 72-1/2" and mark out each hole. (NOTE: If the space you left is less than a full panel, then you can cut down the panel to fit the space by using a hacksaw.)

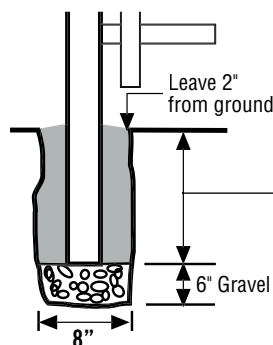


2 FIRST POST INSTALLATION

- 1) Gently use a rubber mallet to drive the post caps into the posts. **Be careful not to damage the top of the posts.**

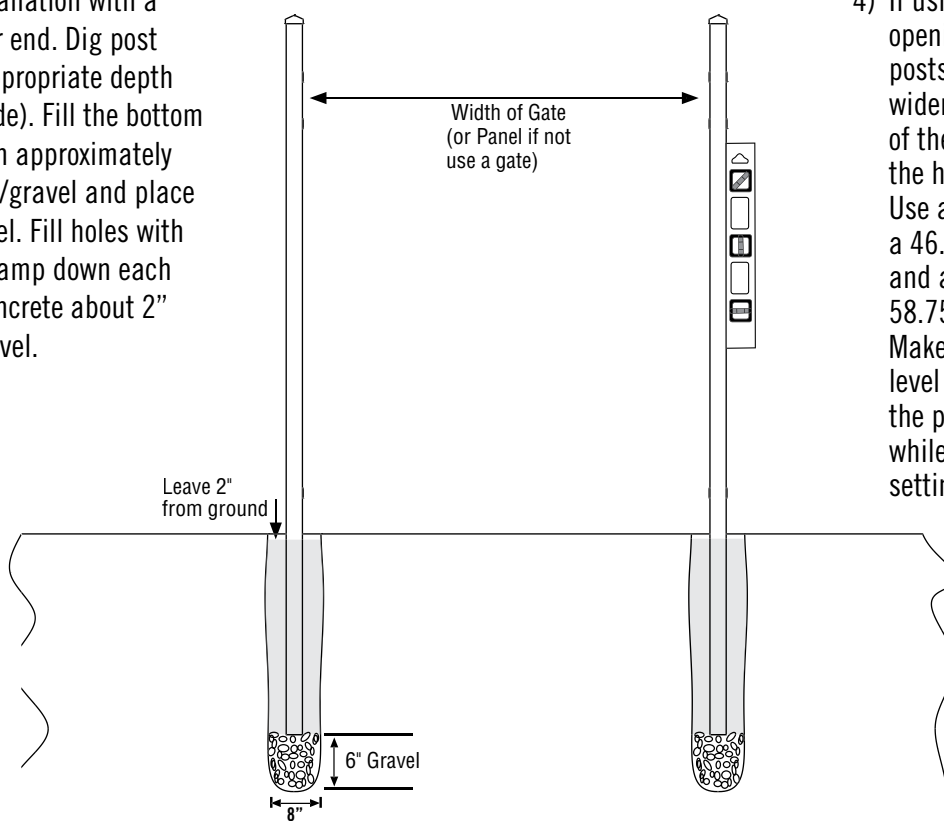


- 2) **Mix the concrete on the dry side to hold the posts in place faster.** See chart below to determine the minimum depth for your fence. (NOTE: In areas where frost occurs, the concrete foundations should be extended below the frost line. This will account for frost "heave," which is where ground water freezes and expands upwards. By providing this frost line drainage system, you can keep the frost heave from affecting the posts. Verify depths meet all local building codes.)



Panel Height	Post Height	Hole Depth	Post Goes Into Ground
36"	58"	27"	21"
48"	72"	29"	23"
54"	84"	35"	29"
60"	84"	29"	23"
72"	108"	41"	35"

- 3) Start post installation with a gate, corner, or end. Dig post holes to the appropriate depth (approx. 8" wide). Fill the bottom of the hole with approximately 6" of peastone/gravel and place post onto gravel. Fill holes with concrete and tamp down each post. Leave concrete about 2" from ground level.

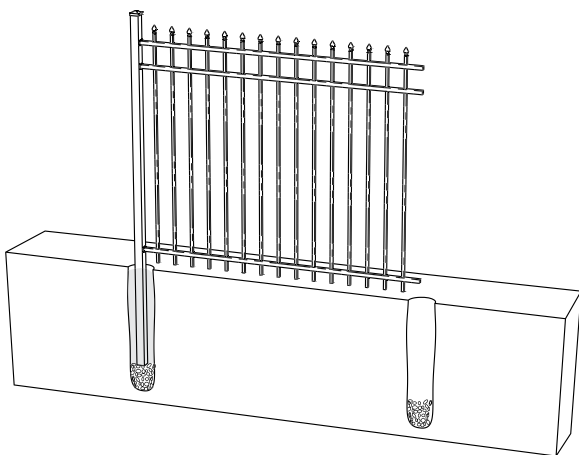


- 4) If using a gate, the opening between the posts should be 1-1/4" wider than the width of the gate to allow for the hinges. (Example: Use a 48" opening for a 46.75" wide (4') gate and a 60" opening for a 58.75" (5') wide gate. Make sure posts are level and plumb. Brace the posts as necessary while the concrete is setting.)

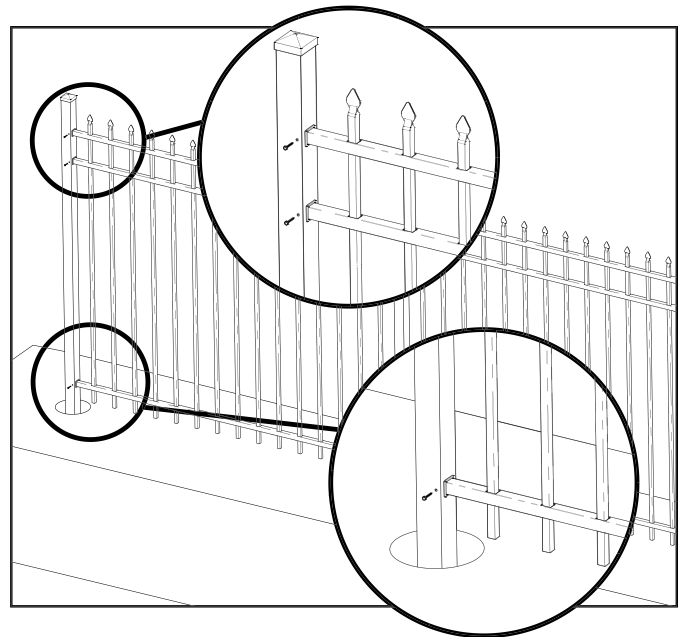
3 PANEL/POST INSTALLATION

- 1) **CAUTION: Do not install all posts first. Installation should be post-panel-post-panel.** NOTE: It is better if the next post hole has already been dug and have 6" of gravel inside when attaching panel to the previous post.

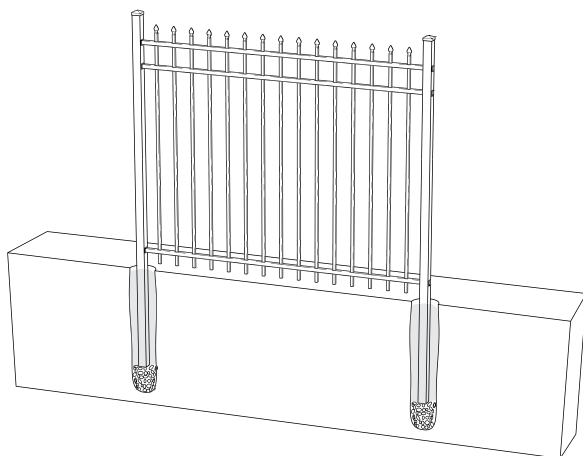
As the gate post (or corner) is setting up, install the first fence panel. Insert the horizontal rails from the panel into the punched holes from the previous installed post. Place the rails as close to the posts as possible.



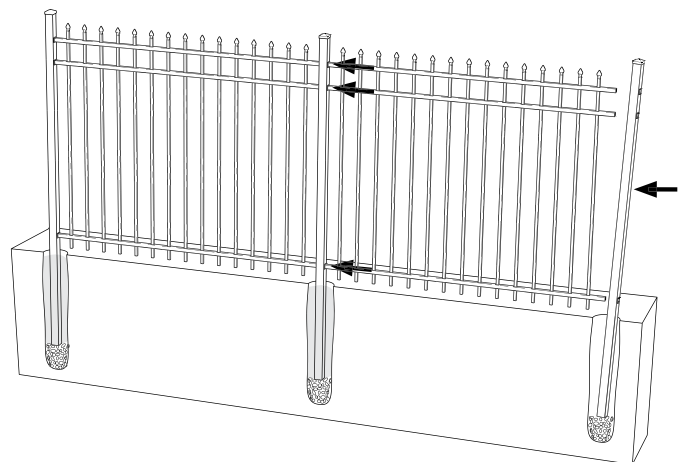
- 2) Fasten the fence section to the posts by using #8 x 1" self-tapping screws. Be careful not to over-tighten the screws as the heads may be broken off or stripped out.



- 3) Place the next required post (line/corner/end) into the hole. Then slide the post onto the rails of the panel carefully. Pour concrete around the post and tamp it down. Leave the concrete approximately 2" below ground level. You will now have one fence panel upright between the two installed posts.

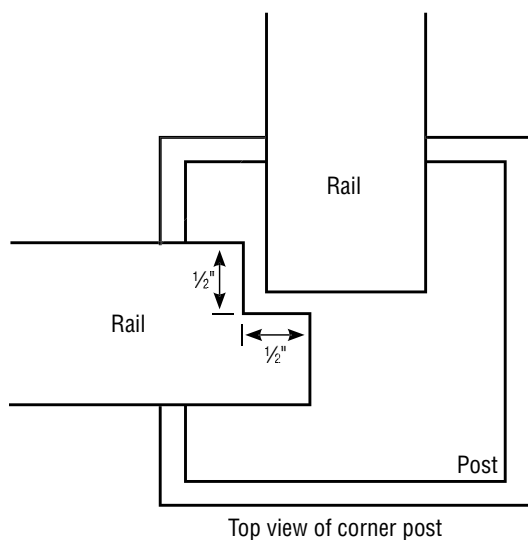


- 4) Repeat by digging the next hole and filling with 6" of gravel. Then insert the next panel into the previously installed post. Place the next post into the hole and slide the post onto the rails of the panel carefully. Pour concrete around that post and tamp it down. Leave the concrete approximately 2" below ground level. Repeat until the end of the line.

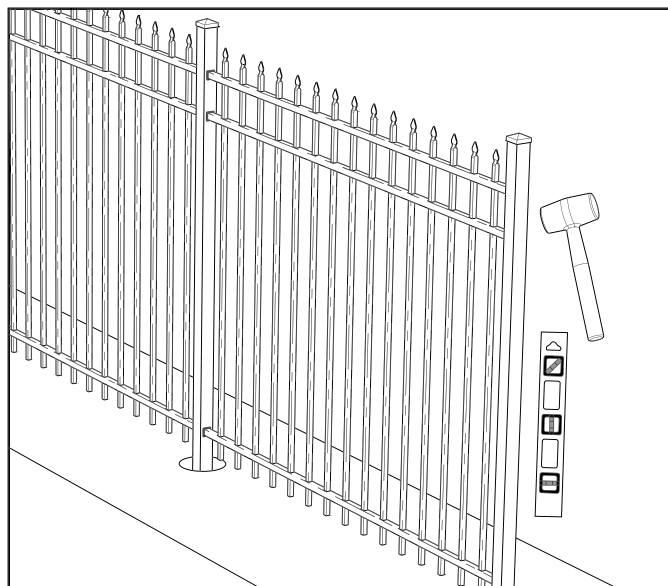


3 PANEL/POST INSTALLATION (CONTINUED)

- 5) Corner posts require some additional work on one of the fence panels. The rails of one panel need to be notched 1/2" to allow the rails to nest adequately within a corner installation.

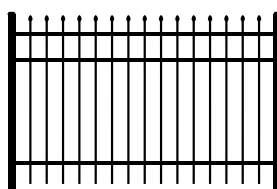


- 6) Once four or so panels are installed, check to make sure all the posts and panels are still horizontal. If need correction, use a rubber mallet while the concrete is still soft.

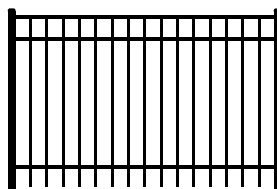


AVAILABLE STYLES

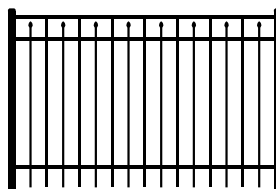
Many Eastern Ornamental Fence and Railing styles are available in the QuickShip™ in-stock program. This means they are in stock all the time. All styles have matching gates (48"W and 60"W) as well as matching accent gates to compliment any walkway. Eastern Ornamental Fence and Railing is the most cost effective and high quality alternative to other ornamental aluminum brands.



*E04101-BK 48"H



*E04202-BK 48"H



*E04200-BK 48"H



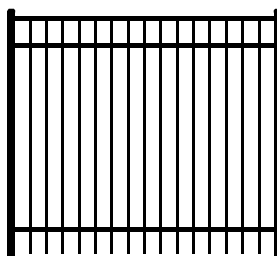
*E040V-BK/BZ 48"H



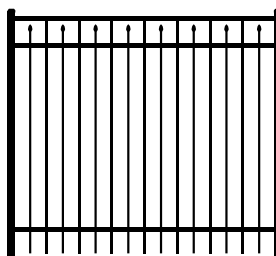
*E054202-BK/BZ 54"H



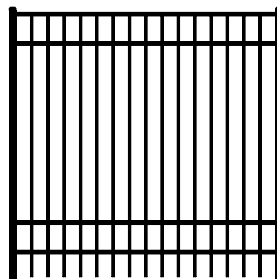
*E054200-BK/BZ 54"H



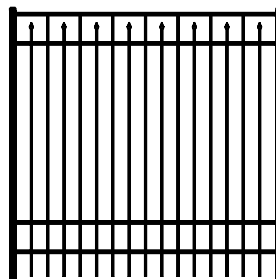
*E05202-BK 60"H



*E05200-BK 60"H



*E06200-BK 72"H



*E06200-BK 72"H

RESIDENTIAL SPECIFICATIONS



EASTERN ORNAMENTAL ALUMINUM FENCE SPECIFICATIONS

EO Fence

Posts	2" x 2" x 0.060" wall
Gate Posts	2" x 2" x .125" wall
Rails (Top Wall)	1" x .055" wall (OVATION SECTIONS 1.134" x .055" wall)
Rails (Side Wall)	1" x .082" wall (OVATION SECTIONS 1.5" x .082 wall)
Pickets	5/8" sq. x .050" wall (OVATION SECTIONS 3/4"sq. x .050" wall)
Picket Spacing	3-13/16"
Heights:	48", 54", 60, and 72"
Colors:	Black (BK) and Bronze (BZ)

MATERIALS

Posts	6061 T6 Aluminum Alloy
Rails	6061 T6 Aluminum Alloy
Pickets	6063 T5 Aluminum Alloy
Finish	DuPont Powder Coating

FENCE GATES

Gate frames are welded and pickets are also welded at cross members for added strength













Top and bottom rails match fence sections

Gate uprights are 1-5/8" x .125" wall thickness

Order matching 48" wide walk gate or 60" wide for double drive gate

Accent gates available for each style

EASTERN ORNAMENTAL FENCE POOL CODE REFERENCE GUIDE

STYLE	BRONZE	WIDTH	HEIGHT	 = POOL CODE COMPLIANT (Check local BOCA building codes for official pool code requirements)			
				48"	54"	60"	72"
RESIDENTIAL 5/8" x 5/8" pickets (EO40V – 3/4" x 3/4" pickets)							
EO4101-BK		72"	48"				
EO4202BK		72"	48"				
EO4200-BK		72"	48"				
EO40V-BK/BZ		72"	48"				
EO54202-BK/BZ		72"	54"				
EO54200-BK/BZ		72"	54"				
EO5202-BK		72"	60"				
EO5200-BK		72"	60"				
EO6202-BK		72"	72"				
EO6200-BK		72"	72"				
INDUSTRIAL 1" x 1" pickets							
EO6101IND-BK		96"	72"				

EO RESIDENTIAL 3 PART SPECIFICATION



Eastern Ornamental Aluminum Residential Fence 3 Part Specification

PART 1 GENERAL

1.01 Description

- A. Furnish and install residential grade aluminum ornamental fence and accessory materials as provided by Eastern Ornamental Fence and as indicated on the drawings and as specified. The work includes, but is not limited to the following:
1. Fences, gates and related hardware.

1.02 Quality Assurance

- A. References
1. AAMA 800- Specifications and test methods for sealants
 2. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
 3. ASTM B117- Standard practice for operating salt spray apparatus
 4. ASTM D1654- Standard test method for evaluation of painted or coated specimens subjected to corrosive environments
 5. ASTM D523- Standard test method for specular gloss..
 6. Accelerated weathering for 500 hours under Method 6152 of Federal Test Method 141 shall show no adhesion loss, with only slight fading, chalking and water staining.
 7. Outdoor weathering shall show no adhesion loss, checking of crazing, with only slight fade and chalk when exposed for one year in Florida facing south at a 45 degree angle.w
 8. Minimum hardness of 2H using ASTM D3363

1.03 Submittals

- A. Manufacturer's product literature and certification
B. Shop drawings in sufficient detail to show fabrication, anchorage and interface of the work. Include plan layout, accessories, fittings and hardware.

1.04 Warranty

- A. The entire fence system shall have a Limited Lifetime warranty against defects in workmanship and material while the finish must also carry a limited lifetime warranty against cracking, chipping or peeling.

PART 2 PRODUCTS

2.01 Supplier

Eastern Ornamental Fence
<http://www.EasternOrnamentalFence.com>

2.02 Materials

- A. Aluminum Extrusions: All posts and rails shall be extruded from 6061-T6 aluminum alloy having a minimum yield strength of 39,900 PSI. All pickets shall be extruded from 6063-T5 aluminum alloy having a minimum yield strength of 27,000 PSI.
B. Fasteners: All fasteners shall be stainless steel with a zinc dichromate coating for enhanced corrosion resistance. Phillips head screws shall be used to attach the pickets to the rails while self-drilling, self-tapping (Phillips) head screws shall be used to connect the rails to the post. All screws shall be painted to match the finish of the fence.
C. Accessories: All castings used for post caps, finials, scrolls, rail/base attachments and latches shall be made from zinc or aluminum. Only stainless steel fasteners may be used with these accessories. All accessories will be painted to match the finish of the fence.

2.03 Finish

- A. A four stage pretreatment shall be applied to assure maximum adhesion and corrosion resistance
B. After the pretreatment, the metal is dried and all materials shall be coated with a DuPont Alesta powder coat finish.
C. The color to be selected by the architect from the manufacturer's standard color selections.

2.04 Construction

- A. Residential Series
1. Horizontal Rails shall be 1" square "U" channels. Pickets shall pass through holes punched in the top rail. The rails shall have a top wall thickness of 0.055" and a side wall thickness of .082".

2. Pickets shall be fastened to the rails using zinc-coated stainless steel screws painted to match the color of the fence. Screws shall be used on only one side of the rail leaving the other side with a clean appearance. Pickets shall be 5/8" square (Ovation pickets are 3/4" square) with a .050" wall thickness.
3. Posts shall be 2" square with a .125" wall thickness.
4. Gate posts shall be [2" square with a .125" wall thickness] [4" square with a .125" wall thickness] [6" square with a .188" wall thickness]. A gate requires a gate post on both sides. A cast aluminum cap is to be used on all posts.
5. Spacing shall be 3-13/16" between pickets.
6. Installed Centers shall be 72-1/2" on center (2-1/2" posts).
8. Color shall be powder coated black.

2.05 Concrete

- A. Comply with requirements specified in Section 03 11 13 - Structural Cast-in-Place Concrete Forming

3.01 Surface Conditions

- A. Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper completion of work. Do not proceed until unsatisfactory conditions are corrected.

PART 3 EXECUTION

3.02 Installation

- A. Follow manufacturer's instructions for the installation of all gates and fencing.
B. All material must be checked upon receipt at the job site prior to installation to check for damage that may have occurred during transport. The fence system must be stored in a safe place and dry environment so as to protect it from any potential damage. The fence system must be installed with manufacturer's standard procedures.

3.03 Setting Posts

- A. Remove loose and foreign materials from sites and bottoms of holes and moisten soil prior to pouring concrete. Center and align posts in holes. Place concrete around posts in a continuous pour and vibrate or tamp for consolidation.
B. Check each post for vertical and top alignment. Hold in position during placement and finishing operation. Trowel tops of footings and slope or dome to direct water away from posts.
C. Set keeps, stops, sleeves and other accessories into concrete as required. Keep exposed concrete surfaces moist for at least seven days after placement, or cure with a membrane curing material. Grout-in those parts with are set into sleeved holes, concrete constructions or rock excavations using non-shrink Portland cement grout.

3.04 Installing Gates

- A. Install gates plumb, level and secure for full opening without interference. Install ground-set items in concrete for anchorage in accordance with manufacturer's recommendations as approved by the architect. Lubricate and adjust the hardware for smooth operation.

WARRANTY

Eastern Ornamental Fence manufactures fence systems using the finest in materials and coatings to bring you the most beautiful, strong, and durable fence system on the market.

All Eastern Ornamental Aluminum Residential Picket fence components manufactured by Eastern Ornamental Fence and coated are warranted against workmanship with a Limited Lifetime Warranty from the original purchase date as shown on the receipt.

For a full warranty statement or more information, please contact:

www.EasternOrnamentalFence.com



Eastern Ornamental Fence is a product of:
Eastern Wholesale Fence LLC
266 Middle Island Rd.
Medford, NY 11780

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