



City of Rockwall
The New Horizon

ADDENDUM #2
TO THE SPECIFICATIONS FOR
LIFT STATIONS FENCE PROJECT

The addendum is an integral part of the RFB and must be signed and returned with the submittal or acknowledged in the bid submittal.

The purpose of this addendum is to incorporate the following changes and or clarifications to the RFB:

- 1. To include the Aluminum Picket Fence manufacturer specifications for UAS-100 8 foot tall fence. Specifications included in this Addendum #2.**

All other terms and conditions remain unchanged. If you have any questions regarding this addendum, please contact me at lewing@rockwall.com or 972-772-6418.

Respectfully,

Lea Ann Ewing
Purchasing Agent
12-28-2018

Below are the specs. used to bid the fence. The proposed product is the same that has been used on numerous projects in Plano, Carrollton, Heath and Allen.

The fence is 100% aluminum and is made in the US from 80% minimum recycled materials.

Manufacturer is Ultra Aluminum Mfg., Inc

Howell, Michigan

Ultrafence.com

UAS-100 is a spear top fence panel

UAF-200 is a flat top panel to closely match the existing steel fence panels

The Aluminum Picket Fence shall be manufactured from aluminum extrusions, having a minimum ultimate strength of 35,000 psi, using 6005 T5 alloy for structural components. All screws shall be 18-8 stainless steel with a .003 plating of zinc and coated with yellow chromate to ensure corrosion resistance. The screw heads shall be painted to match the finish of the fence. All accessories shall be aluminum.

The fence and fence posts shall be powder coated black with a lifetime warranty against peeling, cracking, crazing or chipping. The finish shall have a minimum cured film thickness of 2.0-mils.

Touch-up shall be by paint pin supplied by the fence manufacturer. Fence panels will be rejected if a significant surface area is scratched or damaged during construction. City shall determine acceptance of damaged panels.

b) Technical Data

Pickets: The hollow pickets shall pass through the rails and are to be attached using stainless steel screws allowing the pickets to be always parallel to the terrain. Screws shall be on one side of rail only. Pickets shall be 1" square x 0.062" thick.

Horizontal Rails: Rails shall be C-Channels with ribbed reinforced side walls. Square holes shall be punched in the top of the rails to allow the pickets to pass through.

- Four rails are required.
- Heavy Industrial Rails shall be 1-5/8" x 1-5/8" with a side thickness of 0.100", top wall thickness 0.070" and bottom wall thickness of 0.062", which snaps into the top allowing all screws to be enclosed inside the rail.

Posts: Posts shall be hollow square extrusion with holes pre-punched to allow the rails from the fence sections to slide into them. All posts shall include aluminum post caps. Posts can be placed no more than 6 feet apart.

- Line Posts and End Posts are 3" square x 0.125" thick
- Gate Posts are 4" square x 0.125" thick weighing 9.00 pounds per foot

Gates: Gates shall be fabricated with 2" or 2½" square ends, 1-5/8" x 1-5/8" rails and 1" square pickets. The gate shall be a double swing gate. Gate shall match appearance of fence panel. The gate shall have a double rail that allows for hidden fasteners and no exposed cavities under the rail. Gate shall be designed and manufactured by the fence manufacturer.

- Each gate shall have a hasp for chain locking welded to the frame as detailed in the construction plans.
- Gates shall be designed and manufactured by the fence manufacturer.
- Assembled section shall be able to support 500-pounds of vertical load at the mid-point of any horizontal frame rail.
- Swing gates shall include cane-bolts for each gate panel. The cane-bolt shall have a stop to hold it in the up position for operating the gate.
- Hinges shall have minimum 3/8" stainless steel pins.

Post Installation: The post shall be set 36" in the concrete footing. The gate post shall set a minimum of 48" into the concrete footing.

UAF 200

1 5/8" Rails w/.100" Side Walls & .070" Top Walls

2 ½" Posts w/.100" Wall Thickness

1" Pickets w/ .062" Wall Thickness

UAS 100

3/4" Pickets w/.055" Wall Thickness

1 1/4" x 1 3/8" Rails w/.088" Side Walls & .065" Top Walls

2" Posts w/.080" Wall Thickness

Below is a copy of a general set of Specifications and also a copy of literature for a UAS-100 project.

ORNAMENTAL FENCING & GATES

SPECIFICATIONS

Section 02825 - Ornamental Fences and Gates

Spec-Data Sheet

1. PRODUCT NAME

Ultra Aluminum Industrial Picket Fence

2. MANUFACTURER

Ultra Aluminum Mfg., Inc
2124 Grand Commerce Drive
Howell, MI 48855
Tel: (517) 548-6693
Toll-Free: (800) 656-4420
Fax: (800) 643-7429
www.ultrafence.com

3. PRODUCT DESCRIPTION

Basic Use: To provide attractive, maintenance-free security for residential, commercial, industrial, municipal and recreational applications. The Ultra Aluminum Picket Fence is the ideal choice whenever there is a need for security and protection that complements the architectural or landscape design.

There are two strengths of the Ultra Aluminum Industrial Picket available:

Industrial, and Heavy Industrial. The Industrial and Heavy Industrial provide the maximum protection. Heavy Industrial is made up of a double rail design that allows for hidden fasteners and no exposed cavities under rail stock. See drawings below:

Composition and Materials: The Ultra Aluminum Picket Fence is manufactured from aluminum extrusions, having a minimum ultimate strength of 35,000 psi, using 6005 T5 alloy for structural components. All screws are stainless steel with a .003 plating of zinc and coated with yellow chromate to ensure corrosion resistance under the harshest conditions. The screw heads are painted two coats of polyurethane paint to match the finish of the fence.

Sizes: Industrial and Heavy Industrial strength fences are available in heights of 3', 4', 5', 6', 7', 8', and 10'. Gates are available in widths up to 12' for an 8' and 10' high fence and up to 20' for all other heights below 8' and 10'.

Colors: The fence materials are coated with a TGIC polyester powder-coat finish for Industrial fence comes in Black (Pearl and Textured), White, Bronze, Beige and Green. Heavy Industrial is available in all five standard colors. Custom colors are available at an additional fee.

Styles: Six different styles are available for Industrial and Heavy Industrial.

4. TECHNICAL DATA

Pickets: The hollow pickets pass through the rails and are attached using stainless steel screws. By using this method of attachment, the pickets are always parallel, regardless of the pitch of the terrain.

- Industrial and Heavy Industrial pickets are 1" square x 0.062" thick

Horizontal Rails: Rails are specially designed C-Channels with ribbed reinforced side walls. Square holes are punched in the top of the rails to allow the pickets to pass through. Because aluminum extrusions allow metal to be placed where it is needed most, the reinforced side walls and top has been designed for additional strength. The number of rails used in a section varies with the height and strength of the fence.

- Industrial - Rails are 1-5/8" x 1-5/8" with a side wall thickness of 0.100" and 0.070" thick top wall
- Heavy Industrial - Rails are 1-5/8" x 1-5/8" with a side wall thickness of 0.100", top wall thickness 0.070" and bottom wall thickness of 0.062", which snaps into the top allowing all screws to be enclosed inside the rail.

Posts: Posts are hollow square extrusions with holes pre-punched to allow the rails from the fence sections to slide into them. This keeps the fence sections secure in place. Posts can be placed no more than 8' apart.

- Industrial - Posts are 2-1/2" square x 0.100" thick or 3" square x 0.125" thick or 4" square x 0.125" thick
- Heavy Industrial - Posts are 3" square x 0.125" or 4" square x 0.125" thick

Gates: Matching gates are available for all styles. Industrial and Heavy Industrial gates are fabricated with 2" or 2-1/2" square ends, 1-5/8" x 1-5/8" rails and 1" square pickets. The hinges are made from aluminum extrusions with a 3/8" stainless steel pin that may be attached to either a post or a wall. Self-closing springs and self-latching latches are available for all gates. A proprietary Ultra-Hinge, with its U.H.M.W. insert, is available for gates that swing. For sliding gates an enclosed track cantilever system is offered with "sealed for life" bearings on the truck assemblies. Our gates offer one of the highest strength to weight ratios in the fence industry.

NOTE: A 4' gate fits a 4' opening, inside-to-inside of the posts.

Finish: TGIC-Polyester Powder Coated. The coating is applied by electrostatic spraying and is cured at 400°F for 10 minutes. The finish conforms to and passes the following standards and tests:

- Salt spray resistance test ASTM B-117
- Humidity resistance test ASTM D-2247 no blistering at 3000 hours

- A. ASTM A 276 - Standard Specification for Stainless Steel Bars and Shapes.
- B. ASTM B 221 - Specification for Aluminum Alloy Extruded Bars, Rods, Wire Shapes and Tubes.
- C. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels

5. INSTALLATION

The Ultra Aluminum Picket Fence comes fully assembled in 6' to 8' sections. Sections are normally installed 2" - 3" from the ground to allow trimming the grass under the fence. Pre-punched posts are used every 6' to 8' to connect the sections. The posts are set approximately 24" to 42" in concrete footings or are mounted using welded flange plates. The fence is installed by setting a post in concrete and inserting a section into the pre-punched holes in the post. A second post is then set at the other end of this section. A second section inserts into the second post, and so on. The fence will rake 6" over 6' to follow the contour of the ground, without any special preparation. If a greater slope is involved, the fence can be specifically made to accommodate more severe grades.

6. AVAILABILITY AND COST

Ultra Aluminum Picket Fence is available through any fence dealer nationwide. A complete package of information including price list and specifications is available by contacting an Ultra dealer or the Ultra office.

6.1 SUBMITTALS

Submit under provisions of Section 01300.

[Product Data]: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, gates, and schedule of components.

**** NOTE TO SPECIFIER **** Delete selection samples if colors have already been selected.

Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

6.2 QUALITY ASSURANCE

Manufacturer Qualifications: Company specializing in manufacturing Products specified in this section with minimum five years documented experience.

6.3 DELIVERY, STORAGE, AND HANDLING

Transport, handle, store, and protect products so that they are in undamaged condition when installed.

Store products in manufacturer's unopened packaging to protect prefinished aluminum surfaces until ready for installation.

Store components off the ground in a dry covered area, protected from adverse weather conditions.

7. WARRANTY

Ultra guarantees the Aluminum Picket Fence for life. This guarantee covers defects in workmanship and materials, as well as the TGIC polyester powder-coat finish. The paint will not peel, craze, or chip.

8. MAINTENANCE

No maintenance is required due to the excellent corrosion resistance of the painted aluminum.

9. TECHNICAL SERVICES

Experienced Ultra representatives are available for consultation on particular fencing requirements without obligation.

10. FILING SYSTEMS

SPECIFICATIONS

INDUSTRIAL

Post	2-1/2" x 2-1/2" x .100 Wall 3" x 3" x .125 Wall 4" x 4" x .125 Wall
Horizontal Rail	1-5/8" x 1-5/8"
Enclosed Bottom	N/A
Side Walls	.100
Top Walls	.070
Pickets	1" x 1" x .062 Wall
Picket Spacing	4" or 1-1/2"
Heights	3, 4, 5, 6, 7, 8 & 10 Feet

Colors - Black, Bronze, White, Beige & Green.

Screws - 18 -8 Stainless Steel corrosion resistant. The heads are painted to match the color of the fence.

Panels - Fully Assembled 6 feet in length plus or minus one inch.

SPECIFICATIONS

HEAVY INDUSTRIAL

Post	3" x 3" x .125 Wall 4" x 4" x .125 Wall
Horizontal Rail	1-5/8" x 1-5/8"
Enclosed Bottom	Yes
Side Walls	.100
Top Walls	.070
Pickets	1" x 1" x .062 Wall
Picket Spacing	4" or 1-1/2"
Heights	4, 5, 6, 7, 8, and 10 Feet

Colors - Black and Quaker Bronze

Screws - 18-8 Stainless Steel Corrosion Resistant.

Panels - Fully assembled 6 feet in length plus or minus one inch

MANUFACTURERS

Acceptable Manufacturer: **Ultra Aluminum Mfg., Inc.**, 2124 Grand Commerce Drive
Howell, MI 48855

Toll Free: (800) 656-4420. Phone: (517) 548-6693. Fax: (800) 643-7429.

Email: info@ultraaluminum.com. Web: www.ultrafence.com

D. Substitutions: Not permitted.

Requests for substitutions will be considered in accordance with provisions of Section 01600.



FENCING RAILING GATES ULTRA ACCESS CONTROLS SPECS WHY ULTRA DESIGN STUDIO CONTACT

Home » Features

Ultra Product Features

Superior Product Design for Ultra-Strength

Fencing / Railing



High-strength Ultrum™ Alloy, made in the USA

It's as strong as steel, but will never rust. Ultrum is a 6005-T5 alloy, with a minimum ultimate strength of 35,000 psi.



Our pinched spear tops show more detail than most competitors

We put more dimension into our version; the more pronounced ribs add structural integrity as well as architectural appeal.



Factory assembled, with stainless-steel fasteners

For structural integrity and strength you can count on.



All gates are fastened and 100% welded at all connections and joints

Designed to stand up to the rigors of everyday use.



Powercoat™ Finish—panels, gates, posts and designer accessories

When applied, Powercoat is twice the thickness and hardness of a typical acrylic, baked enamel, or "wet paint" finish, making it more durable, fade-resistant and scratch-resistant than other coatings.

Fencing

Ultrarail™ – 20% more aluminum in all our rails, with a full 8 ribs inside

Maintains Ultra-Strength even when punched for pickets.



COLOR SELECTION

DESIGNER ACCESSORIES

ULTRA HARDWARE

ULTRA FEATURES

PRODUCT LITERATURE

FREQUENTLY ASKED QUESTIONS



PHOTO GALLERY

Panels and Gates are to be Industrial Premium Series and will have "concealed" fasteners in the panels and gates

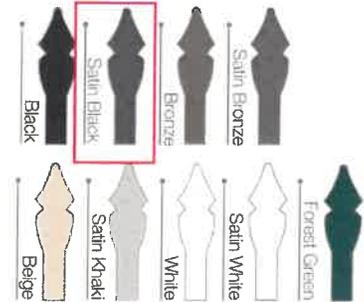


Fencing Specifications

Components	Residential Series	Commercial Series	Industrial Series
Pickets	5/8" sq. x .050	3/4" sq. x .055	1" sq. x .062
Ultra Picket	1" x 5/8" x .062		
Light Commercial Picket	1" x 5/8" x .050		
Rails Top Wall	1 1/8" x .062	1 3/8" x .065	1 5/8" x .070
	Side Wall	1 1/4" x .088	1 5/8" x .100
Standard Posts	2" sq. x .060	2" sq. x .080	2 1/2" sq. x .100
	2" sq. x .080	2" sq. x .125	3" sq. x .125
	2" sq. x .125	2 1/2" sq. x .100	
	2 1/2" sq. x .100	3" sq. x .125	
Gate Posts	2" sq. x .125	3" sq. x .125	3" sq. x .125
	2 1/2" sq. x .100	4" sq. x .125	4" sq. x .125
Picket Spacing	3 13/16"	3 5/8"	3 5/8"
	1 5/8" optional	1 1/2" optional	1 1/2" optional
Ultra Picket	3 7/16"		
Post Spacing	72 1/2" on center	72 1/2" on center	72 3/8" on center
			8' wide optional
Heights Available	36" 42" 48"	36" 42" 48"	36" 48" 60" 72"
	54" 60" 72"	54" 60" 72"	84" 96" 108" 120" 132" 144"

Colors

Ultra Fencing, Railing, Gates and Designer Accessories are available in nine classic colors as well as custom specified hues. All colors are applied with a special Powercoat™ finish to resist harsh weather and heat.



Colors shown represent an approximate comparison and may vary slightly from actual product color.

Finish:

Advanced Powercoat™ allows us to produce a high quality, long lasting finish, which is also environmentally friendly. Powercoat is twice the thickness and hardness of a typical baked enamel finish. Meets AAMA 2604-5 standards for the ultimate in durability and UV protection.

Materials:

All Ultra Fence™ components are extruded from Ultrum™ 6005-T5 alloy, with a minimum ultimate strength of 35,000 psi. Every fence system is assembled with stainless steel, corrosion resistant fasteners, with heads painted to match the finish of the fence. Ultra offers posts in a variety of thicknesses, punched to accept the channel on the fence. Designer Accessories are zinc die cast aluminum. All Designer Accessories are Powercoat™ finished.

Ultra Aluminum Lifetime Warranty

Ultra Aluminum fence and railing products are guaranteed for life against defects in workmanship and/or materials. The Powercoat™ finish on all fencing and railing by Ultra Aluminum is guaranteed for life against cracking, peeling or chipping.

Visit our website for more information and a copy of the warranty.

Environmentally Responsible

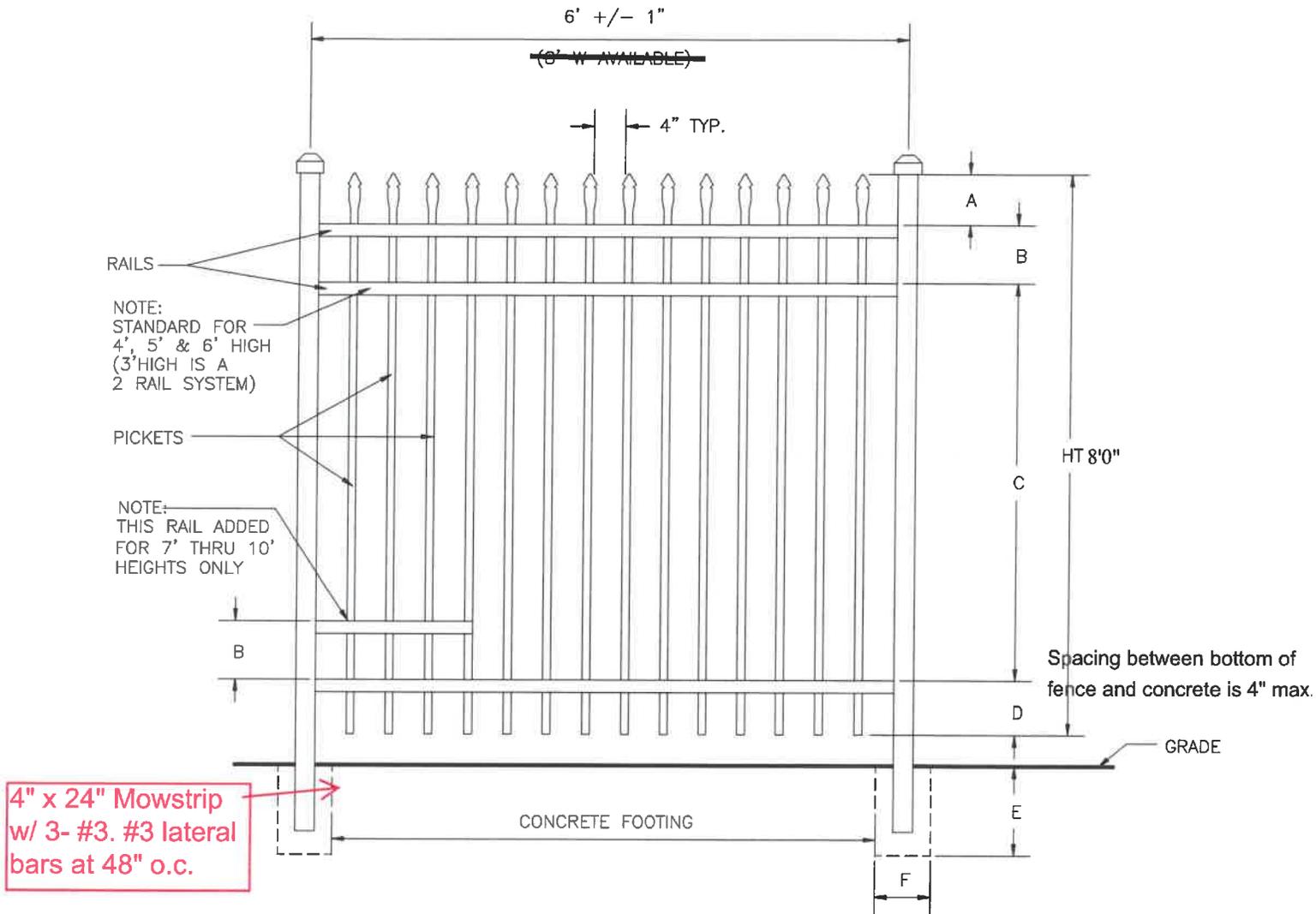
Ultra is proud to use recycled aluminum in our products. Aluminum is the most commonly recycled metal in the world. Our Powercoat™ coating process is environmentally friendly and virtually pollution-free.

Design Options

Ultra Fencing is available in a wide selection of design configurations.



UAS-100 Industrial Premium Spear Point 4" Spacing, 8'H x 6'W



UAS 100
 SPEAR TOP

SPECIFICATIONS INDUSTRIAL	
POSTS	2 1/2" x 2 1/2" x .100 WALL
Lines & Corners	3"x3"x.125 WALL
Gates	4"x4"x.125 WALL
HORIZONTAL RAILS	1 5/8" x 1 5/8"
ENCLOSED BOTTOM	AVAILABLE
SIDE WALLS	.100"
TOP WALLS	.070"
PICKETS	1"x1"x.062 WALL
PICKET SPACING	4"
AVAILABLE HEIGHTS	3, 4, 5, 6, 7, 8 , 9 & 10 FT.
AVAILABLE WIDTHS	6 & 8 FT.

DIMENSIONS						
HT	A	B	C	D	E	F
3'	6 1/2"	7 1/2"	15"	7"	PER LOCAL CODE	
4'	6 1/2"	7 1/2"	27"	7"	PER LOCAL CODE	
5'	6 1/2"	7 1/2"	39"	7"	PER LOCAL CODE	
6'	6 1/2"	7 1/2"	51"	7"	PER LOCAL CODE	
7'	8 1/2"	11 1/2"	62 3/4"	11 1/4"	PER LOCAL CODE	
8'	8 1/2"	11 1/2"	64 3/4"	11 1/4"	42"	12" dia.
9'	12 1/2"	14 3/4"	65 3/4"	15"	PER LOCAL CODE	
10'	12 1/2"	14 3/4"	77 3/4"	15"	PER LOCAL CODE	

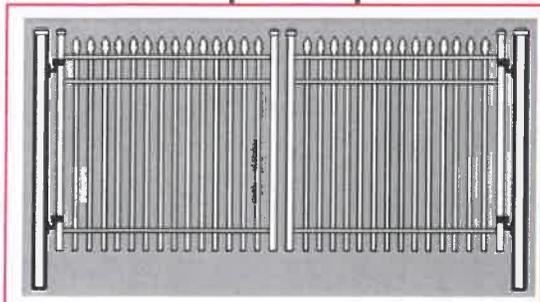
Color - BLACK 'Satin Finish'



FENCING RAILING GATES ULTRA ACCESS CONTROLS SPECS WHY ULTRA DESIGN STUDIO CONTACT

Home » Gates » Ind Drive Gates » UAS-100 Drive Gate

UAS-100 D Spear Top Drive Gate – Standard or Arched



Traditional wrought-iron look in durable, easy-care ornamental aluminum. This pressed spear style is available in Industrial Series and Industrial Series Premium grades. Ultra's Premium grades have a reinforced double-wall rail with hidden fasteners.

Standard Gates are 6', 7', 8', 10', 12' wide x 4', 5', 6', 7', 8' high. Gates come fully assembled. Custom widths or heights are available.

U-Frame required 6' wide or greater

Pickets: 1" square x .062 wall

Spacing between Pickets: standard 4" and optional 1-1/2"

Fasteners: Stainless steel

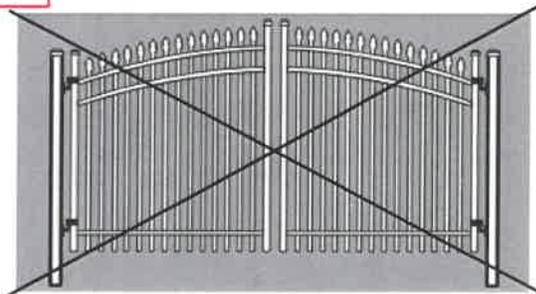
Horizontal Rails: 1-5/8" x 1-5/8" with .100 side walls and .070 top walls

Posts: 2-1/2" square x .100 wall; 3" square x .125 wall. All posts include standard caps.

Alloy: High-strength Ultrum™ 6005-T5 alloy, min. strength 35,000 PSI

Finish: Powercoat™. When applied, Powercoat is twice the thickness and hardness of a typical acrylic, baked enamel or "wet paint" finish, making it more durable, fade-resistant and scratch-resistant than other coatings.

Colors: Black, **Satin Black**, Bronze, Satin Bronze, Beige, Satin Khaki, White, Satin White, Forest Green



- COLOR SELECTION
- DESIGNER ACCESSORIES
- ULTRA HARDWARE
- ULTRA FEATURES
- PRODUCT LITERATURE
- FREQUENTLY ASKED QUESTIONS



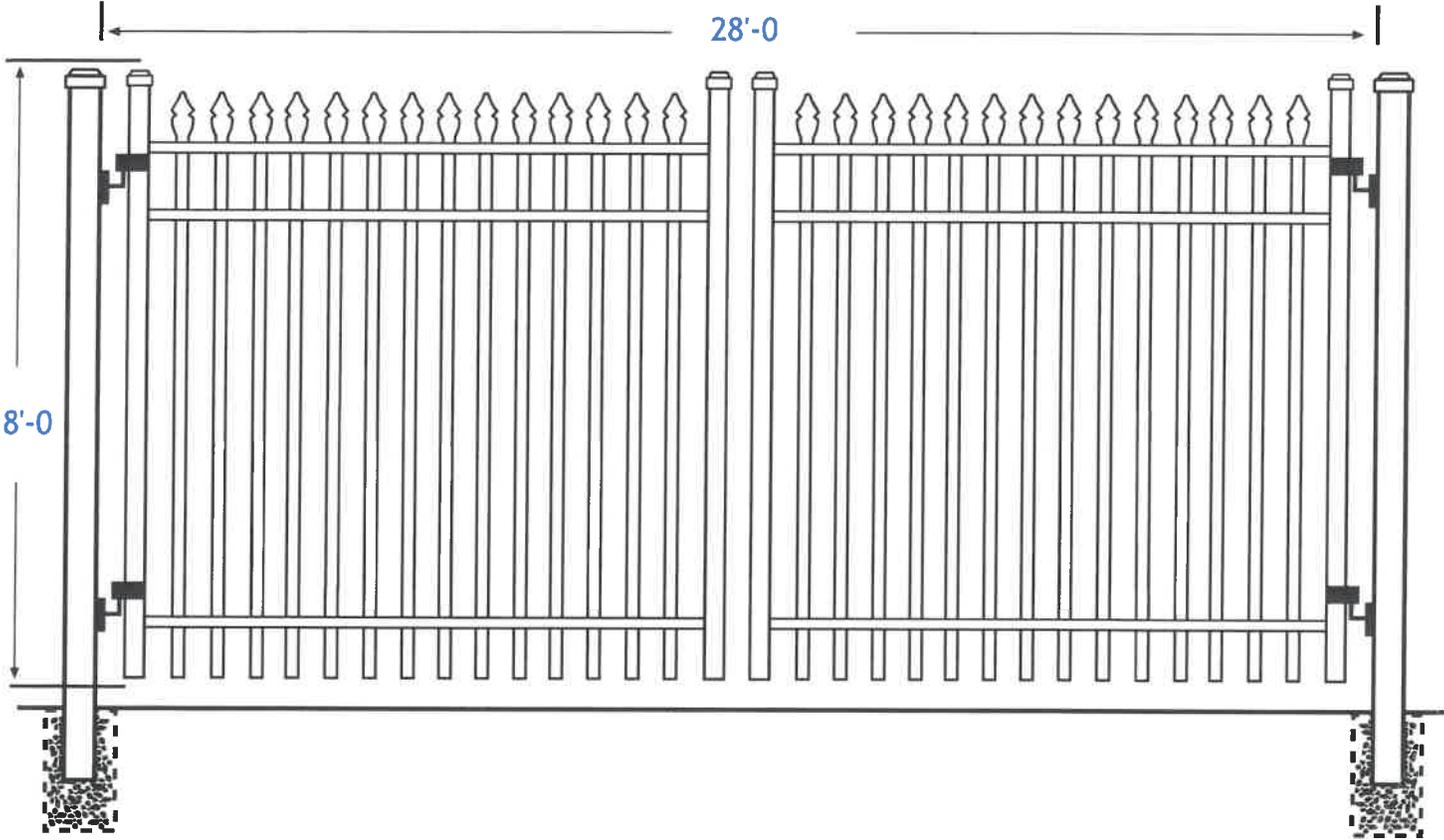
PHOTO GALLERY

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UAS-100 Standard Double Gate



<input type="checkbox"/> Residential Grade <input type="checkbox"/> Ultra Grade <input type="checkbox"/> Commercial Grade <input type="checkbox"/> Industrial Grade	<input type="checkbox"/> Quote Gate <input type="checkbox"/> Order Gate	Name _____ Date _____
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