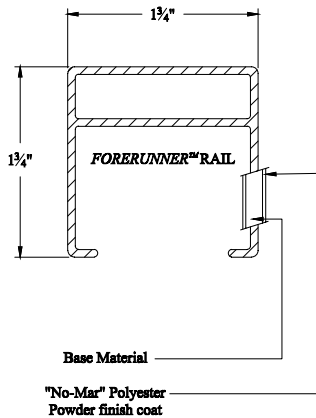


Echelon II®

INDUSTRIAL ORNAMENTAL ALUMINUM FENCE

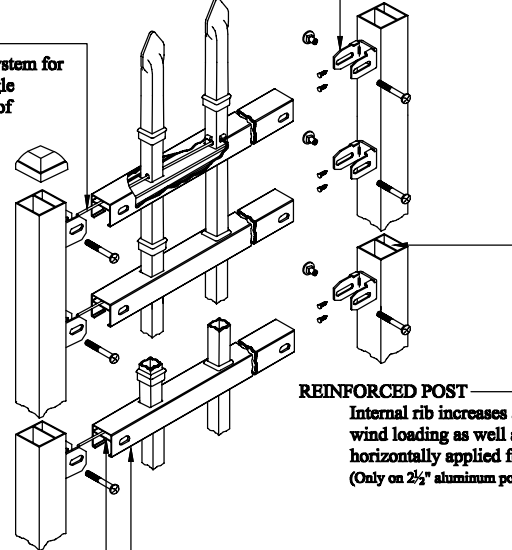
Echelon II Rail: 1-3/4" x 1-3/4" (.070" top wall / .070" side walls)
Echelon II Picket: 1" x 1" x .065"

PATENT PENDING



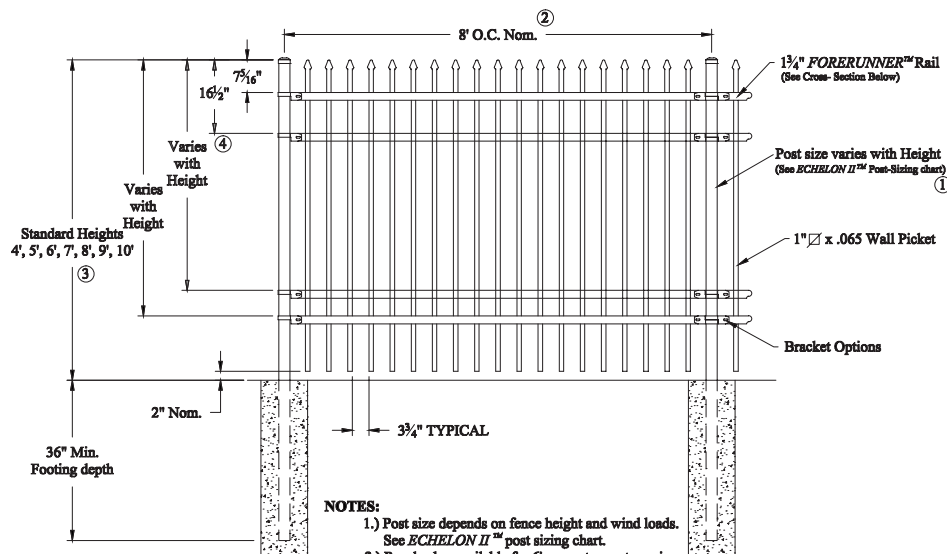
INTERNAL RETAINING ROD
Variable pitch connection system for ease of installation, high angle bias ability and elimination of unsightly external fasteners.

PANEL BRACKET
Specially designed two-point connection ensures fixity of rail ends for increased strength.



INTERIOR GUIDE CHANNEL
Channel forms lower limit of raceway for retaining rod and allows for high angle bias ability.

FORERUNNER RAIL
"U"-Channel specially formed high strength architectural shape.



NOTES:

- 1.) Post size depends on fence height and wind loads. See ECHELON II post sizing chart.
- 2.) Panels also available for 6' on center post spacing
- 3.) Additional heights available on request. Some heights noted require a third and/or fourth rail.
- 4.) Third and Fourth rail optional.

NOTE: PANELS DO NOT COME PRE-ASSEMBLED.

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

PANELS

1-888-333-3422
FAX: 1-877-926-3747

2-Rail Classic 	2-Rail Majestic 	2-Rail Genesis
3-Rail Classic 	3-Rail Majestic 	3-Rail Genesis
3-Rail Classic with Rings 	3-Rail Majestic with Rings 	3-Rail Genesis with Rings
4-Rail Classic 	4-Rail Majestic 	4-Rail Genesis
4-Rail Classic with Rings 	4-Rail Majestic with Rings 	4-Rail Genesis with Rings

STYLE SELECTION = * **X** = COLOR SELECTION
 CLASSIC = C B = BLACK
 MAJESTIC = M N = BRONZE
 GENESIS = G W = WHITE
 S = DESERT SAND

Rail Quantity	Nominal Panel Width	Nominal Panel Height	Item Number	Catalog Price (Black)	Catalog Price (Color)	Panel Weight
2-Rail	8' Wide	4'	2A * X 20468			37
		5'	2A * X 20588			42
		6'	2A * X 20708			48
	6' Wide	4'	2A * X 20466			27
		5'	2A * X 20586			30
		6'	2A * X 20706			35

Effective: 01/01/13

ECHELON II®

AMERISTAR®
FENCE PRODUCTS
PANELS

1-888-333-3422
FAX: 1-877-926-3747

STYLE SELECTION = * X = COLOR SELECTION CLASSIC = C B = BLACK MAJESTIC = M N = BRONZE GENESIS = G W = WHITE S = DESERT SAND						
Rail Quantity	Nominal Panel Width	Nominal Panel Height	Item Number	Catalog Price (Black)	Catalog Price (Color)	Panel Weight
3-Rail	8' Wide	4'	2A * <u>X</u> 30468			44
		5'	2A * <u>X</u> 30588			49
		6'	2A * <u>X</u> 30708			55
		7'	2A * <u>X</u> 30828			60
	6' Wide	4'	2A * <u>X</u> 30466			32
		5'	2A * <u>X</u> 30586			36
		6'	2A * <u>X</u> 30706			41
		7'	2A * <u>X</u> 30826			44
3-Rail (With Rings)	8' Wide	4'	2A * <u>X</u> 30468R			50
		5'	2A * <u>X</u> 30588R			55
		6'	2A * <u>X</u> 30708R			61
		7'	2A * <u>X</u> 30828R			66
	6' Wide	4'	2A * <u>X</u> 30466R			36
		5'	2A * <u>X</u> 30586R			40
		6'	2A * <u>X</u> 30706R			45
		7'	2A * <u>X</u> 30826R			48
4-Rail	8' Wide	8'	2A * <u>X</u> 40948			73
		9'	2A * <u>X</u> 41068			78
		10'	2A * <u>X</u> 41188			84
	6' Wide	8'	2A * <u>X</u> 40946			54
		9'	2A * <u>X</u> 41066			57
		10'	2A * <u>X</u> 41186			62
4-Rail (With Rings)	8' Wide	8'	2A * <u>X</u> 40948R			79
		9'	2A * <u>X</u> 41068R			84
		10'	2A * <u>X</u> 41188R			90
	6' Wide	8'	2A * <u>X</u> 40946R			58
		9'	2A * <u>X</u> 41066R			61
		10'	2A * <u>X</u> 41186R			66

ECHELON II

Effective: 01/01/13

ECHELON II®

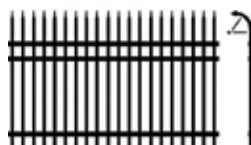


AMERISTAR®
FENCE PRODUCTS

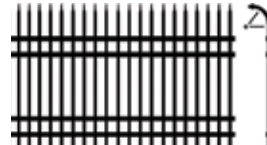
PANELS

1-888-333-3422
FAX: 1-877-926-3747

3-Rail Invincible™



4-Rail Invincible™



X = COLOR SELECTION
B = BLACK
N = BRONZE
W = WHITE
S = DESERT SAND

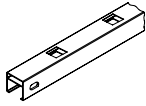
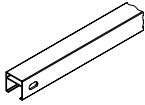
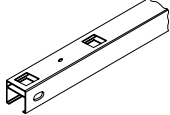
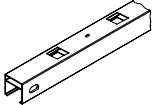
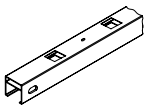
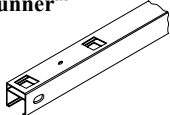
Rail Quantity	Nominal Panel Width	Nominal Panel Height	Item Number	Catalog Price (Black)	Catalog Price (Color)	Panel Weight
3-Rail	8' Wide	7'	2AI <u>X</u> 30828			94
	6' Wide	7'	2AI <u>X</u> 30826			69
4-Rail	8' Wide	8'	2AI <u>X</u> 40948			111
		9'	2AI <u>X</u> 41068			121
		10'	2AI <u>X</u> 41188			131
	6' Wide	8'	2AI <u>X</u> 40946			82
		9'	2AI <u>X</u> 41066			89
		10'	2AI <u>X</u> 41186			97

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

COMPONENTS

ITEM DESCRIPTION	BLACK		COLOR				LENGTH	BOX QTY	WT EA.
	ITEM	PRICE	BRONZE	WHITE	DESERT SAND	PRICE			
Rail-Through Punched ForeRunner™ 	ACBR26R		ACNR26R	ACWR26R	ACSR26R		67-3/4	6	3.2
	For 6' long Classic™, Genesis™, and Majestic™ (other than Majestic™ top rail). Includes grommets and retaining rods.								
	ACBR28R		ACNR28R	ACWR28R	ACSR28R		92-5/8	4	4.4
	For 8' long Classic™, Genesis™, and Majestic™ (other than Majestic™ top rail). Includes grommets and retaining rods.								
Rail-Bottom Punched ForeRunner™ 	AMBR26R		AMNR26R	AMWR26R	AMSR26R		67-3/4	6	3.2
	For 6' long Majestic™ top rail. Includes retaining rods.								
	AMBR28R		AMNR28R	AMWR28R	AMSR28R		92-5/8	4	4.4
	For 8' long Majestic™ top rail. Includes retaining rods.								
Rail-Through Punched ForeRunner™ Invincible 	AIBR26R		AINR26R	AIWR26R	AISR26R		71-3/8	6	3.4
	For 6' long Invincible™. Includes grommets and retaining rods.								
	AIBR28R		AINR28R	AIWR28R	AISR28R		91-1/4	4	4.3
	For 8' long Invincible™. Includes grommets and retaining rods.								
Rail - Through Punched Top-Punched For Rings ForeRunner™ 	ARBR26R		ARNR26R	ARWR26R	ARSR26R		67-3/4"	6	3.2
	6' long rail used as 2nd rail for panels with rings.								
	ARBR28R		ARNR28R	ARWR28R	ARSR28R		92-5/8"	4	4.4
	8' long rail used as 2nd rail for panels with rings.								
Rail - Through Punched Top-Punched For Rings ForeRunner™ 	ACRBR26R		ACRNR26R	ACRWR26R	ACRSR26R		67-3/4"	6	3.2
	For 6' long Classic™, Genesis™ Top Ring Rail.								
	ACRBR28R		ACRNR28R	ACRWR28R	ACRSR28R		92-5/8"	4	4.4
	For 8' long Classic™, Genesis™ Top Ring Rail.								
Rail - Through Punched Bottom-Punched For Rings ForeRunner™ 	AMRBR26R		AMRNR26R	AMRWR26R	AMRSR26R		67-3/4"	6	3.2
	For 6' long Majestic™ top rail with rings.								
	AMRBR28R		AMRNR28R	AMRWR28R	AMRSR28R		92-5/8"	4	4.4
	For 8' long Classic™ top rail with rings.								

Effective: 01/01/13

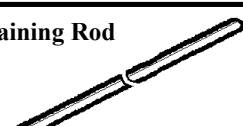
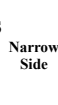
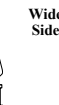
ECHELON II®



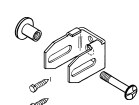
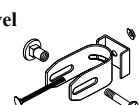
AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

COMPONENTS

ITEM DESCRIPTION	BLACK		COLOR				LENGTH	BAG QTY	WT EA.
	ITEM	PRICE	BRONZE	WHITE	DESERT SAND	PRICE			
Grommet Sets 	XB150P		XN150P	XW150P	XS150P		1" Sq.	15	3 oz.
	XB190P		XN190P	XW190P	XS190P		1" Sq.	19	3 oz.
	Price is per polybag of grommets.								
Picket Plug 	8450P-20	6.04/Bag	-----	8453P-20	-----	6.04/Bag	1" Sq.	20	1.2
	Picket Plugs included with Genesis panels.								
Retaining Rod 	H531P						67"	1	2 oz.
	H532P						71-3/8"	1	2.2 oz.
	H533P						91-1/4"	1	3 oz.
	H530P						92-5/8"	1	3.2 oz.
	Galvanized steel; 1/8" in diameter.								
Quad-Flares  Top View  Narrow Side  Wide Side	AB512		AN512	AW512	AS512		1" Sq.	---	.5
	Fits atop 1" square pickets. Heavy-duty cast aluminum (6" tall). The four sided flare design adds the popular traditional look to the "Genesis™" fence style.								
Triads 	AB514		AN514	AW514	AS514		1" Sq.	---	.5
	Fits atop 1" square pickets. Heavy-duty cast aluminum. Three distinct tips reflect the strong look of a barbed spear.								
Royalty 	AB526		AN526	AW526	AS526		1" Sq.	---	.26
	Fits atop 1" square pickets. Die cast aluminum (6" tall).								
Rings 	AB511		AN511	AW511	AS511		4" Ø	---	.3
	The use of rings will change rail-to-rail spacing. Consult your Ameristar professional for exact dimensions.								

PANEL BRACKETS

ITEM DESCRIPTION	BLACK		COLOR				BAG QTY	BOX QTY	WT. EA.
	PART NO.	PRICE EA.	BRONZE	WHITE	DESERT SAND	PRICE EA.			
Industrial Universal Boulevard Bracket 	BB302		BN302	BW302	BS302		2	40	.46
	BB303		BN303	BW303	BS303		2	40	.53
Made from high strength steel. Packaged in polybag with #14 x 3/4" self-drilling screws, 1/4" x 2" one-way security bolts and 1/4" tee nuts. MUST BE ORDERED IN BAG QUANTITIES. Mounts on 2-1/2" and 3" square post. Works universally for lines, ends and corners.   									
Industrial Flat Mount Bracket 	BB301		BN301	BW301	BS301		2	50	.42
Packaged 2 pieces per polybag with #14 x 3/4" self-drilling screws, 1/4" x 2" one-way security bolts, 1/4" tee nuts. Fasteners and brackets are made of high-strength steel. MUST BE ORDERED IN BAG QUANTITIES.									
Industrial Swivel Bracket 	BB304		BN304	BW304	BS304		2	40	1
Made from high strength steel. All fasteners are steel. MUST BE ORDERED IN BAG QUANTITIES. (NOTE: CAUTION! THIS BRACKET INCREASES POST SPACING).									

Effective: 01/01/13

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

SCREW REMOVER

ITEM DESCRIPTION	PART NUMBER	PRICE EA.	BOX QTY.	WT. EA.
One-Way Screw Remover	88246P		1	.10

CUSTOM FINISHES

ITEM DESCRIPTION	BLACK		COLOR				WEIGHT EACH
	PART	PRICE EA.	BRONZE	WHITE	DESERT SAND	PRICE	
Paint Pen 	PB100		PN100	PW100	PS100		.5
Custom finishes in all four Echelon II fencing colors.							
Spray Paint 	FB100		FN100	FW100	FS100		1.1
Custom finishes in all four Echelon II fencing colors.							

FASTENERS

ITEM DESCRIPTION	PART NUMBER				PRICE	LENGTH	BOX QTY	WT EA.
	BLACK	BRONZE	WHITE	DESERT SAND				
One-Way Bolts 	7150BP	7150NP	7150WP	7150SP		1/4" X 2"	1	.04
Steel washered one-way bolts for industrial brackets.								
Tee Nuts 	7157BP	7157NP	7157WP	7157SP		1/4"	1	.015
Steel tee nuts for industrial brackets.								
Self-Drilling Screws 	HB524P	HN524P	HW524P	HS524P		#14 X 3/4"	1	.012
Steel hex head self-drilling screws for industrial brackets.								
Drive Rivets 	HB558P	HN558P	HW558P	HS558P		1/4"	1	.002
Drive rivets for flat mount bracket.								
Flange Nuts 	HB300P	HN300P	HW300P	HS300P		5/16"	1	.013
Steel flange nuts for industrial swivel bracket.								
Carriage Bolts 	HB302P	HN302P	HW302P	HS302P		5/16" X 3-1/2"	1	.082
	HB303P	HN303P	HW303P	HS303P		5/16" X 4"	1	.09
Steel carriage bolts for industrial swivel bracket.								

Effective: 01/01/13

ECHELON II®

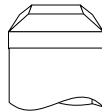


AMERISTAR®
FENCE PRODUCTS

1-888-333-3422

FAX: 1-877-926-3747

ALUMINUM ORNAMENTAL SQUARE POST



NOTE: In location subject to freezing, where posts are grouted into core-drilled holes, a 1/4" diameter hole should be drilled in the post approximately 1/2" above elevation to allow for drainage of built-up ground water. The drilled hole must be wiped clean and dry before applying Ameristar color finish.

X = COLOR SELECTION

B = BLACK

N = BRONZE

W = WHITE

S = DESERT SAND

Post Diameter	Wall Thickness	Post Length	Item Number	Catalog Price (Black)	Catalog Price (Color)	Post Weight
2-1/2" SQ. (ALUMINUM)	.080	6'	2AP <u>X</u> 25072			7
		7'	2AP <u>X</u> 25084			8
		8'	2AP <u>X</u> 25096			9
		9'	2AP <u>X</u> 25108			11
		10'	2AP <u>X</u> 25120			12
		11'	2AP <u>X</u> 25132			13
		12'	2AP <u>X</u> 25144			15
3" SQ. (ALUMINUM)	0.125	7'	AP <u>X</u> 30084			12
		8'	AP <u>X</u> 30096			14
		9'	AP <u>X</u> 30108			15
		10'	AP <u>X</u> 30120			17
		11'	AP <u>X</u> 30132			18
		12'	AP <u>X</u> 30144			20
4" SQ. (ALUMINUM)	0.250	7'	AP <u>X</u> 40084			31
		8'	AP <u>X</u> 40096			36
		9'	AP <u>X</u> 40108			40
		10'	AP <u>X</u> 40120			43
		11'	AP <u>X</u> 40132			49
		12'	AP <u>X</u> 40144			54
		13'	AP <u>X</u> 40156			58

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

STEEL ORNAMENTAL SQUARE POST

X = COLOR SELECTION B = BLACK N = BRONZE W = WHITE S = DESERT SAND						
Post Diameter	Ga. / Wall Thickness	Post Length	Item Number	Catalog Price (Black)	Catalog Price (Color)	Post Weight
3" SQ. (STEEL)	12 GA. (INDUSTRIAL)	5'	P <u>X</u> 30060			20
		6'	P <u>X</u> 30072			24
		7'	P <u>X</u> 30084			30
		8'	P <u>X</u> 30096			34
		9'	P <u>X</u> 30108			39
		10'	P <u>X</u> 30120			43
		11'	P <u>X</u> 30132			47
		12'	P <u>X</u> 30144			51
		13'	P <u>X</u> 30156			56
		14'	P <u>X</u> 30168			60
		15'	P <u>X</u> 30180			64
		16'	P <u>X</u> 30192			69
4" SQ. (STEEL)	11 GA. (INDUSTRIAL)	6'	P <u>X</u> 40072			39
		7'	P <u>X</u> 40084			47
		8'	P <u>X</u> 40096			54
		9'	P <u>X</u> 40108			61
		10'	P <u>X</u> 40120			67
		11'	P <u>X</u> 40132			74
		12'	P <u>X</u> 40144			81
		13'	P <u>X</u> 40156			87
		14'	P <u>X</u> 40168			94
		15'	P <u>X</u> 40180			101
		16'	P <u>X</u> 40192			108
6" SQ. (STEEL)	3/16" WALL (INDUSTRIAL)	7'	P <u>X</u> 60084			102
		8'	P <u>X</u> 60096			116
		9'	P <u>X</u> 60108			131
		10'	P <u>X</u> 60120			145
		11'	P <u>X</u> 60132			160
		12'	P <u>X</u> 60144			174
		13'	P <u>X</u> 60156			189
		14'	P <u>X</u> 60168			103
		15'	P <u>X</u> 60180			218
		16'	P <u>X</u> 60192			232

ECHELON II

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

STEEL PLATED ORNAMENTAL SQUARE POST

Note: Plated posts used with Majestic & Conqueror styles may require a post length 1" longer than the panel/gate height dependent on the grade elevation.

X = COLOR SELECTION

B = BLACK
N = BRONZE
W = WHITE
S = DESERT SAND

Post Diameter	GA. / Plate Size	Post Length	Item Number	Catalog Price (Black)	Catalog Price (Color)	Post Weight
3" SQ. (STEEL)	12 GA. 6" x 6" SQ. 1/4" Thick with 9/16" Holes (5003G)	4'	P <u>X</u> 30048P			20
		5'	P <u>X</u> 30060P			24
		6'	P <u>X</u> 30072P			30
		7'	P <u>X</u> 30084P			34
		8'	P <u>X</u> 30096P			39
		9'	P <u>X</u> 30108P			43
		10'	P <u>X</u> 30120P			47
4" SQ. (STEEL)	11 GA. 8" x 8" SQ. 3/8" Thick with 9/16" Holes (8876G)	4'	P <u>X</u> 40048P			33
		5'	P <u>X</u> 40060P			39
		6'	P <u>X</u> 40072P			47
		7'	P <u>X</u> 40084P			54
		8'	P <u>X</u> 40096P			61
		9'	P <u>X</u> 40108P			67
		10'	P <u>X</u> 40120P			74

POST CAPS

X = COLOR SELECTION

B = BLACK
N = BRONZE
W = WHITE
S = DESERT SAND

Cap Type	Cap Style	Size	Item Number	Catalog Price (Black)	Catalog Price (Color)	Cap Weight
	STANDARD FLAT CAP	3" SQ.	A <u>X</u> 508			0.3
		4" SQ.	A <u>X</u> 509			0.4
		6" SQ.	A <u>X</u> 515			0.8
	STANDARD FLAT CAP	2-1/2" SQ.	A <u>X</u> 600P			0.2
		3" SQ.	A <u>X</u> 700P			0.3
		4" SQ.	A <u>X</u> 800P			0.4
	BALL CAP	3" SQ.	A <u>X</u> 516			0.8
		4" SQ.	A <u>X</u> 517			2
		6" SQ.	A <u>X</u> 521			8

Effective: 01/01/13

AMERISTAR FENCE PRODUCTS®

ECHELON II® - Heavy Industrial Aluminum Ornamental Fence System – Internally Secured
Construction Specification - SECTION 32 31 19

PART 1 - GENERAL

1.01 WORK INCLUDED

The contractor shall provide all labor, materials and appurtenances necessary for installation of the industrial ornamental aluminum fence system defined herein at (specify project site).

1.02 RELATED WORK

Section ____ - Earthwork

Section ____ - Concrete

1.03 SYSTEM DESCRIPTION

The manufacturer shall supply a total industrial ornamental aluminum fence system of the Ameristar® Echelon II® (specify Classic™, Majestic™, Genesis™ or Invincible™) design. The system shall include all components (i.e., pickets, rails, posts, gates and hardware) required.

1.04 QUALITY ASSURANCE

The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

1.05 REFERENCES

- ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
- ASTM D523 - Test Method for Specular Gloss.
- ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.

1.06 SUBMITTAL

The manufacturer's submittal package shall be provided prior to installation.

1.07 PRODUCT HANDLING AND STORAGE

Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

PART 2 - MATERIALS

2.01 MANUFACTURER

The industrial ornamental aluminum fence system shall conform to Ameristar Echelon II, (specify Classic, Majestic, Genesis or Invincible) (specify 2-Rail, 3-Rail, 4-Rail, 3-rail with rings, or 4-rail with rings) style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

2.02 MATERIAL

A. Aluminum material for fence framework (i.e., tubular pickets, rails and posts) shall conform to the requirements of ASTM B221. The aluminum extrusions for posts and rails shall be Alloy and Temper Designation 6005-T52. The aluminum extrusions for pickets shall be Alloy and Temper Designation 6063-T52.

B. The manufactured framework shall be subjected to the Ameristar thermal stratification coating process (high-temperature, in-line, multi-stage, and multi-layer) including, as a minimum, a six-stage pretreatment/wash and an electrostatic spray application of a polyester finish. The topcoat shall be a "no-mar" TGIC polyester powder coat finish with a minimum thickness of 2 mils (0.0508mm). The color shall be (specify Black, Bronze, White, or Desert Sand). The stratification-coated framework shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2.

C. Material for fence pickets shall be 1" square x 0.062" thick extruded tubing. The cross-sectional shape of the rails shall conform to the manufacturer's ForeRunner™ design with outside cross-section dimensions of 1.75" square. The top wall and internal web of the of the rail shall be 0.070" thick; the sidewalls shall be 0.070" thick for superior vertical load strength. Picket holes in the ForeRunner rail shall be spaced 4.715" o.c., except for Invincible style 6' long, which shall be, spaced

4.98" o.c. Picket retaining rods shall be 0.125" diameter galvanized steel. Fence posts and gate posts shall meet the minimum size requirements of Table 1. High quality PVC grommets shall be supplied to seal all picket-to-rail intersections.

D. All fasteners shall be steel. Bracket to rail attachments shall be made using specially designed one-way tamperproof security bolts with inverted "t-nuts". Bracket to post connections shall be made using self-drilling hex-head screws.

E. Aluminum castings shall be used for all rings, post caps, finials, and miscellaneous adornments.

2.03 FABRICATION

A. Pickets, rails and posts shall be pre-cut to specified lengths. ForeRunner rails shall be pre-punched to accept pickets.

B. The rail inner slide shall be fully inserted into the rail outer channel to form the raceway for the internal retaining rod. Grommets shall be inserted into the pre-punched holes in the rails, and pickets shall be inserted through the grommets so that pre-drilled picket holes align with the internal raceway of the two-part ForeRunner rails. (Note: This can best be accomplished by using an alignment template). Retaining rods shall be inserted into each ForeRunner rail so that they pass through the pre-drilled holes in each picket, thus completing the panel assembly.

C. Completed panels shall be capable of supporting a 300 lb. load (applied at midspan) without permanent deformation. Panels shall be biasable to a 25% change in grade.

D. Gates shall be fabricated using 1.75" sq. reinforced ForeRunner rail material, 2" sq. x .250" gate ends, and 1" sq. x .125" pickets. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall be joined by welding.

PART 3 - EXECUTION

3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 FENCE INSTALLATION

Fence post shall be spaced according to Table 3, plus or minus ½". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

3.03 FENCE INSTALLATION MAINTENANCE

When cutting/drilling rails or posts adhere to the following steps to seal the exposed surfaces; 1) Remove all metal shavings from cut area. 2) Apply custom finish paint matching fence color. Failure to seal exposed surfaces per steps 1& 2 above will negate warranty. Ameristar spray cans or paint pens shall be used to prime and finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

3.04 GATE INSTALLATION

Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.

3.05 CLEANING

The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

Effective: 01/01/13

ECHELON II®



AMERISTAR FENCE PRODUCTS®
ECHELON II® - Heavy Industrial Aluminum Ornamental Fence System – Internally Secured
Construction Specification - SECTION 32 31 19

Table 1 – Minimum Sizes for Echelon II Posts

Fence Posts	Panel Height			
2-1/2" x 2-1/2" x .080" Alum. w/ reinforced web	Up to & Including 6' Height			
3" x 3" x .120" Alum.	Over 6' Up to & Including 8' Height			
4" x 4" x .250" Alum.	Over 8' Height Up to 10'			
Gate Leaf	Gate Height			
	Up to & Including 4'	Over 4' Up to & Including 6'	Over 6' Up to & Including 8'	Over 8' Up to & Including 10'
Up to 4'	3" x 3" x .120" Alum.	4" x 4" x .250 Alum. or 3" x 12 Ga. steel	4" x 11 Ga. steel	4" x 11 Ga. steel
4'1" to 6'	4" x 4" x .250 Alum. or 3" x 12Ga. steel	3" x 12 Ga. steel	4" x 11 Ga. steel	4" x 11 Ga. steel
6'1" to 8'	4" x 11 Ga. steel	4" x 11 Ga. steel	4" x 11 Ga. steel	6" x 3/16" steel
8'1" to 10'	4" x 11 Ga. steel	4" x 11 Ga. steel	6" x 3/16" steel	6" x 3/16" steel
10'1" to 12'	4" x 11 Ga. steel	6" x 3/16" steel	6" x 3/16" steel	6" x 3/16" steel
12'1" to 14'	6" x 3/16" steel	6" x 3/16" steel	6" x 3/16" steel	6" x 3/16" steel

Table 2 – Coating Performance Requirements

Quality Characteristics	ASTM Test Method	Performance Requirements
Adhesion	D3359 – Method B	Adhesion (Retention of Coating) over 90% of test area (Tape and knife test).
Corrosion Resistance	B117 & D1654	Corrosion Resistance over 1,000 hours (Scribed per D1654; failure mode is accumulation of 1/8" coating loss from scribe or medium #8 blisters).
Impact Resistance	D2794	Impact Resistance over 60 inch lb. (Forward impact using 0.625" ball).
Weathering Resistance	D822 D2244, D523 (60° Method)	Weathering Resistance over 1,000 hours (Failure mode is 60% loss of gloss or color variance of more than 3 delta-E color units).

Table 3 – Echelon II – Post Spacing By Bracket Type

Span	For INVINCIBLE® 8' Nominal (91.25" Rail)		For CLASSIC, GENESIS, & MAJESTIC 8' Nominal (92.625" Rail)					
Post Size	2-1/2"	3"	2-1/2"	3"	2-1/2"	3"	2-1/2"	3"
Bracket Type	Industrial Flat Mount (BB301)		Industrial Universal (BB302)	Industrial Universal (BB303)	Industrial Flat Mount (BB301)		Industrial Swivel (BB304)*	
Post Settings ± 1/2" O.C.	94-1/2"	95"	96"	96.5"	96"	96-1/2"	*97.5"	*98"
Span	For INVINCIBLE® 6' Nominal (71.375" Rail)		For CLASSIC, GENESIS, & MAJESTIC 6' Nominal (67.75" Rail)					
Post Size	2-1/2"	3"	2-1/2"	3"	2-1/2"	3"	2-1/2"	3"
Bracket Type	Industrial Flat Mount (BB301)		Industrial Universal (BB302)	Industrial Universal (BB303)	Industrial Flat Mount (BB301)		Industrial Swivel (BB304)*	
Post Settings ± 1/2" O.C.	75"	75.5"	71.5"	72"	71.5"	72"	*73"	*73.5"
*Note: When using BB304 swivel brackets on either or both ends of a panel installation, care must be taken to ensure the spacing between post and adjoining pickets meets applicable codes. This will require trimming one or both ends of the panel.								

**AMERISTAR® ECHELON II® INDUSTRIAL ALUMINUM FENCE
LIMITED LIFETIME WARRANTY**

AMERISTAR® Echelon II® Industrial Aluminum Fence System is manufactured from the highest quality materials by skilled craftsmen to meet the highest standards of workmanship in the industry. Extruded aluminum framework shall be subject to a six stage pretreatment/wash followed by an electrostatic spray application of a “no-mar” TGIC polyester powder coat finish, which provides the protection necessary to withstand adverse environmental conditions.

The powder coated surface on all aluminum framework (i.e., pickets, rails and posts) by AMERISTAR® is guaranteed under normal and proper usage, against cracking, peeling, chipping, blistering or corroding. Normal and proper usage does not include physical damage or abrasion to the protective coating.

AMERISTAR® Echelon II® Industrial Aluminum Fence System framework is also guaranteed for the same period of time against defects in workmanship or materials.

Should any ornamental aluminum fence framework manufactured by Ameristar® Fence Products fail in accordance with any of the above conditions, Ameristar® Fence Products warrants to the original purchaser their redemption through replacement or renewal. The decision as to which method of redemption is allowed is solely at the discretion of Ameristar. Notice of failure under the conditions of this warranty shall be sent to Ameristar® Fence Products or its authorized representative, in writing, together with proof of purchase and shall specify the nature of the defect and when it was first observed. If contractor uses non Ameristar parts/components this will negate the warranty. Should the fence be improperly installed, Ameristar® Fence Products shall not be responsible for guaranteed performance or appearance of the material. Neither does this guarantee apply when failure or damage is due to improper use or application, abuse or misuse, vandalism or acts of God. Ameristar® Fence Products reserves the right to inspect the material to determine validity of the claim.

Upon validation of the claim by Ameristar® Fence Products or its authorized representative, redemption by replacement or renewal shall be made by Ameristar® Fence Products. Reimbursement for the costs of removal and installation of materials are not included in the guarantee, nor will Ameristar® Fence Products provide those services.

The above constitutes the complete warranty by the manufacturer. No other agreement, written or implied, is valid. Ameristar® Fence Products does not authorize any other person or agent to make any other express warranties. Ameristar® Fence Products neither assumes nor authorizes any other person or agent to assume any other liability in connection with the AMERISTAR® Echelon II® Industrial Aluminum Fence System. Some jurisdictions do not allow limitations on how long an implied warranty lasts, nor do they allow an exclusion or limitation of incidental or consequential damages; therefore, the limitations and exclusions noted herein may not apply.

PURCHASE DATE _____

DEALER SIGNATURE _____



P. O. BOX 581000 TULSA, OKLAHOMA 74158-1000

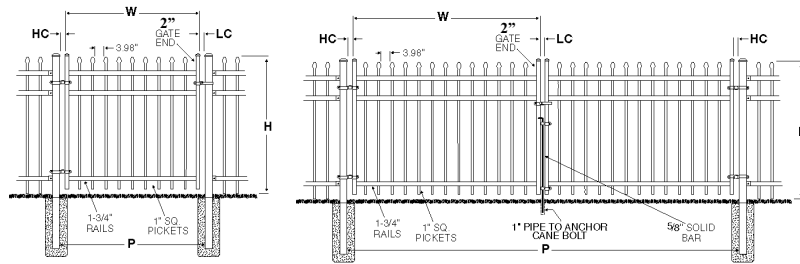
Effective: 01/01/13

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES



Order 1 Leaf For Single Swing Opening

Order 2 Leaves For Double Swing Opening

GATE SPECIFICATION

Gate Ends .250" Wall Aluminum
Rails .125" Wall Aluminum
Pickets .125" Wall Aluminum

W = Outside To Outside Width of Finished Gate Leaf
H = Height; HC = Hinge Clearance;
LC = Latch Clearance;
P_s = Post Interspace (Single Swing);
P_d = Post Interspace (Double Swing)

HARDWARE KITS & POSTS INTERSPACES FOR ECHELON II SINGLE SWING WELDED ALUMINUM GATES WITH STRAIGHT PICKETS													
NOMINAL GATE OPENING	3-1/2"	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	
W = LEAF WIDTH	40-1/4"	49-1/2"	59"	68-1/2"	78"	96-3/4"	106-1/4"	115-1/2"	134-1/2"	143-3/4"	153-1/4"	162-3/4"	
MAGNA LATCH/TRU-CLOSE HINGE KIT #TCPGK NOT FOR GATES OVES 6' WIDE	HC						3/4"						
	LC						3/4"						
	P _s	41-3/4"	51"	60-1/2"	70"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORK LATCH/BOX HINGE KITS #EGBSX25 OR #EGBSX3	HC						2-3/8"						
	LC						2"						
	P _s	44-5/8"	53-7/8"	63-3/8"	72-7/8"	82-3/8"	101-1/8"	110-5/8"	119-7/8"	138-7/8"	148-1/8"	157-5/8"	167-1/8"
AMERISTAR LOCK/BOX HINGE KIT #EGBSXA	HC						2-3/8"						
	LC						5/8"						
	P _s	43-1/4"	52-1/2"	62"	71-1/2"	81"	99-3/4"	109-1/4"	118-1/2"	137-1/2"	146-3/4"	156-1/4"	165-3/4"
HEAVY COMMERCIAL HINGE KIT #HGBS-25, #HGBS-3 OR #HGBS-4	HC						1-1/4"						
	LC						3"						
	P _s	44-1/2"	53-3/4"	63-1/4"	72-3/4"	82-1/4"	101"	110-1/2"	119-3/4"	138-3/4"	148"	157-1/2"	167"
INDUSTRIAL HINGE KIT WITH STRONG ARM #IGBS-25, #IGBS-3 OR #IGBS-4	HC						1-1/2"						
	LC						3"						
	P _s	44-3/4"	54"	63-1/2"	73"	82-1/2"	101-1/4"	110-3/4"	120"	139"	148-1/4"	157-3/4"	167-1/4"
P _s (Post Interspace for Single Gate) = HC (Hinge Clearance) + W (Gate Width) + LC (Latch Clearance)													

HARDWARE KITS & POSTS INTERSPACES FOR ECHELON II DOUBLE SWING WELDED ALUMINUM GATES WITH STRAIGHT PICKETS													
NOMINAL GATE OPENING	7'	8'	10'	12'	14'	16'	18'	20'	21'	24'	26'	14'	
W = LEAF WIDTH	40-1/4"	49-1/2"	59"	68-1/2"	78"	96-3/4"	106-1/4"	115-1/2"	134-1/2"	143-3/4"	153-1/4"	162-3/4"	
FORK LATCH/BOX HINGE KIT #EGBDX	HC						2-3/8"						
	LC						2"						
	P _s	87-1/4"	105-3/4"	124-3/4"	143-3/4"	162-3/4"	200-1/4"	219-1/4"	237-3/4"	275-3/4"	294-1/4"	313-1/4"	332-1/4"
INDUSTRIAL HINGE KIT WITH STRONG ARM #IGBD	HC						1-1/2"						
	LC						2"						
	P _s	85-1/2"	104"	123"	142"	161"	198-1/2"	217-1/2"	236"	274"	292-1/2"	311-1/2"	330-1/2"
P _d (Post Interspace for Double Gate) = 2 x HC (Hinge Clearance) + 2 x W (Gate Width) + LC (Latch Clearance)													

HARDWARE KITS & POSTS INTERSPACES FOR ECHELON II SINGLE SWING WELDED ALUMINUM GATES WITH CURVED INVINCIBLE PICKETS													
NOMINAL GATE OPENING	3-1/2"	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	
W = LEAF WIDTH	40"	44-3/4"	58-7/8"	68-1/4"	82-3/8"	91-7/8"	106"	115-3/8"	129-1/2"	139"	153-1/8"	167-1/4"	
LOKK LATCH/TRU-CLOSE HINGE KIT #TCSGK NOT FOR GATES OVES 6' WIDE	HC						3/4"						
	LC						3/4"						
	P _s	41-1/2"	46-1/4"	60-3/8"	69-3/4"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FORK LATCH/BOX HINGE KITS #EGBSX25 OR #EGBSX3	HC						2-3/8"						
	LC						2"						
	P _s	44-3/8"	49-1/8"	63-1/4"	72-5/8"	86-3/4"	96-1/4"	110-3/8"	119-3/4"	133-7/8"	143-3/8"	157-1/2"	171-5/8"
AMERISTAR LOCK/BOX HINGE KIT #EGBSXA	HC						2-3/8"						
	LC						5/8"						
	P _s	43"	47-3/4"	61-7/8"	71-1/4"	85-3/8"	94-7/8"	109"	118-3/8"	132-1/2"	142"	156-1/8"	170-1/4"
P _s (Post Interspace for Single Gate) = HC (Hinge Clearance) + W (Gate Width) + LC (Latch Clearance)													

HARDWARE KITS & POSTS INTERSPACES FOR ECHELON II DOUBLE SWING WELDED ALUMINUM GATES WITH CURVED INVINCIBLE PICKETS													
NOMINAL GATE OPENING	7'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	
W = LEAF WIDTH	40"	44-3/4"	58-7/8"	68-1/4"	82-3/8"	91-7/8"	106"	115-3/8"	129-1/2"	139"	153-1/8"	167-1/4"	
FORK LATCH/BOX HINGE KIT #EGBDX	HC						2-3/8"						
	LC						2"						
	P _s	86-3/4"	96-1/4"	124-1/2"	143-1/4"	171-1/2"	190-1/2"	218-3/4"	237-1/2"	265-3/4"	284-3/4"	313"	341-1/4"
HEAVY COMMERCIAL HINGE KIT #HGBD	HC						1-1/4"						
	LC						2"						
	P _s	84-1/2"	94"	122-1/4"	141"	169-1/4"	188-1/4"	216-1/2"	235-1/4"	263-1/2"	282-1/2"	310-3/4"	339"
P _d (Post Interspace for Double Gate) = 2 x HC (Hinge Clearance) + 2 x W (Gate Width) + LC (Latch Clearance)													

Note: See Sales Policy for additional information pertaining to gate orders.

Effective: 01/01/13

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Straight Picket Style Choices

CLASSIC™

MAJESTIC™

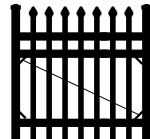
GENESIS™

2-Rail

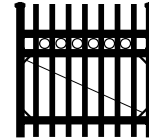


For additional strength; all gate leaves greater than 6 feet in width will have an intermediate center upright, gusset plates will be welded in all four corners, and the appropriate quantity of turnbuckle and cable kits will be included.

3-Rail



3-Rail With Rings



4-Rail



4-Rail With Rings



Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
 Classic = C B = Black
 Majestic = M W = White
 Genesis = G N = Bronze
 S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
4' Tall	2-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 2048-42			37
		4'	49-1/2"	2A * <u>X</u> 2048-48			42
		5'	59"	2A * <u>X</u> 2048-60			48
		6'	68-1/2"	2A * <u>X</u> 2048-72			54
		7'	78"	2A * <u>X</u> 2048-84			69
		8'	96-3/4"	2A * <u>X</u> 2048-96			75
		9'	106-1/4"	2A * <u>X</u> 2048-108			85
		10'	115-1/2"	2A * <u>X</u> 2048-120			91
		11'	134-1/2"	2A * <u>X</u> 2048-132			99
		12'	143-3/4"	2A * <u>X</u> 2048-144			105
		13'	153-1/4"	2A * <u>X</u> 2048-156			111
		14'	162-3/4"	2A * <u>X</u> 2048-168			127

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
Classic = C B = Black
Majestic = M W = White
Genesis = G N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
4' Tall	3-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 3048-42			40
		4'	49-1/2"	2A * <u>X</u> 3048-48			46
		5'	59"	2A * <u>X</u> 3048-60			53
		6'	68-1/2"	2A * <u>X</u> 3048-72			60
		7'	78"	2A * <u>X</u> 3048-84			76
		8'	96-3/4"	2A * <u>X</u> 3048-96			83
		9'	106-1/4"	2A * <u>X</u> 3048-108			93
		10'	115-1/2"	2A * <u>X</u> 3048-120			100
		11'	134-1/2"	2A * <u>X</u> 3048-132			109
		12'	143-3/4"	2A * <u>X</u> 3048-144			116
		13'	153-1/4"	2A * <u>X</u> 3048-156			123
		14'	162-3/4"	2A * <u>X</u> 3048-168			140
	3-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 3048-42R			42
		4'	49-1/2"	2A * <u>X</u> 3048-48R			49
		5'	59"	2A * <u>X</u> 3048-60R			56
		6'	68-1/2"	2A * <u>X</u> 3048-72R			64
		7'	78"	2A * <u>X</u> 3048-84R			81
		8'	96-3/4"	2A * <u>X</u> 3048-96R			88
		9'	106-1/4"	2A * <u>X</u> 3048-108R			101
		10'	115-1/2"	2A * <u>X</u> 3048-120R			109
		11'	134-1/2"	2A * <u>X</u> 3048-132R			119
		12'	143-3/4"	2A * <u>X</u> 3048-144R			126
		13'	153-1/4"	2A * <u>X</u> 3048-156R			134
		14'	162-3/4"	2A * <u>X</u> 3048-168R			152
5' Tall	2-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 2058-42			44
		4'	49-1/2"	2A * <u>X</u> 2058-48			51
		5'	59"	2A * <u>X</u> 2058-60			58
		6'	68-1/2"	2A * <u>X</u> 2058-72			65
		7'	78"	2A * <u>X</u> 2058-84			82
		8'	96-3/4"	2A * <u>X</u> 2058-96			89
		9'	106-1/4"	2A * <u>X</u> 2058-108			101
		10'	115-1/2"	2A * <u>X</u> 2058-120			108
		11'	134-1/2"	2A * <u>X</u> 2058-132			117
		12'	143-3/4"	2A * <u>X</u> 2058-144			124
		13'	153-1/4"	2A * <u>X</u> 2058-156			131
		14'	162-3/4"	2A * <u>X</u> 2058-168			151

Effective: 01/01/13

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
Classic = C B = Black
Majestic = M W = White
Genesis = G N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
5' Tall	3-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 3058-42			47
		4'	49-1/2"	2A * <u>X</u> 3058-48			55
		5'	59"	2A * <u>X</u> 3058-60			63
		6'	68-1/2"	2A * <u>X</u> 3058-72			71
		7'	78"	2A * <u>X</u> 3058-84			89
		8'	96-3/4"	2A * <u>X</u> 3058-96			97
		9'	106-1/4"	2A * <u>X</u> 3058-108			109
		10'	115-1/2"	2A * <u>X</u> 3058-120			117
		11'	134-1/2"	2A * <u>X</u> 3058-132			127
		12'	143-3/4"	2A * <u>X</u> 3058-144			135
		13'	153-1/4"	2A * <u>X</u> 3058-156			143
		14'	162-3/4"	2A * <u>X</u> 3058-168			164
	3-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 3058-42R			49
		4'	49-1/2"	2A * <u>X</u> 3058-48R			57
		5'	59"	2A * <u>X</u> 3058-60R			66
		6'	68-1/2"	2A * <u>X</u> 3058-72R			75
		7'	78"	2A * <u>X</u> 3058-84R			94
		8'	96-3/4"	2A * <u>X</u> 3058-96R			102
		9'	106-1/4"	2A * <u>X</u> 3058-108R			117
		10'	115-1/2"	2A * <u>X</u> 3058-120R			126
		11'	134-1/2"	2A * <u>X</u> 3058-132R			137
		12'	143-3/4"	2A * <u>X</u> 3058-144R			145
		13'	153-1/4"	2A * <u>X</u> 3058-156R			154
		14'	162-3/4"	2A * <u>X</u> 3058-168R			176
6' Tall	2-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 2070-42			51
		4'	49-1/2"	2A * <u>X</u> 2070-48			59
		5'	59"	2A * <u>X</u> 2070-60			67
		6'	68-1/2"	2A * <u>X</u> 2070-72			75
		7'	78"	2A * <u>X</u> 2070-84			96
		8'	96-3/4"	2A * <u>X</u> 2070-96			104
		9'	106-1/4"	2A * <u>X</u> 2070-108			117
		10'	115-1/2"	2A * <u>X</u> 2070-120			125
		11'	134-1/2"	2A * <u>X</u> 2070-132			137
		12'	143-3/4"	2A * <u>X</u> 2070-144			145
		13'	153-1/4"	2A * <u>X</u> 2070-156			153
		14'	162-3/4"	2A * <u>X</u> 2070-168			175

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
 Classic = C B = Black
 Majestic = M W = White
 Genesis = G N = Bronze
 S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
6' Tall	3-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 3070-42			55
		4'	49-1/2"	2A * <u>X</u> 3070-48			63
		5'	59"	2A * <u>X</u> 3070-60			75
		6'	68-1/2"	2A * <u>X</u> 3070-72			81
		7'	78"	2A * <u>X</u> 3070-84			103
		8'	96-3/4"	2A * <u>X</u> 3070-96			112
		9'	106-1/4"	2A * <u>X</u> 3070-108			123
		10'	115-1/2"	2A * <u>X</u> 3070-120			132
		11'	134-1/2"	2A * <u>X</u> 3070-132			145
		12'	143-3/4"	2A * <u>X</u> 3070-144			154
		13'	153-1/4"	2A * <u>X</u> 3070-156			163
		14'	162-3/4"	2A * <u>X</u> 3070-168			186
	3-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 3070-42R			57
		4'	49-1/2"	2A * <u>X</u> 3070-48R			66
		5'	59"	2A * <u>X</u> 3070-60R			77
		6'	68-1/2"	2A * <u>X</u> 3070-72R			85
		7'	78"	2A * <u>X</u> 3070-84R			108
		8'	96-3/4"	2A * <u>X</u> 3070-96R			117
		9'	106-1/4"	2A * <u>X</u> 3070-108R			133
		10'	115-1/2"	2A * <u>X</u> 3070-120R			143
		11'	134-1/2"	2A * <u>X</u> 3070-132R			157
		12'	143-3/4"	2A * <u>X</u> 3070-144R			166
		13'	153-1/4"	2A * <u>X</u> 3070-156R			176
		14'	162-3/4"	2A * <u>X</u> 3070-168R			200
7' Tall	3-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 3082-42			62
		4'	49-1/2"	2A * <u>X</u> 3082-48			71
		5'	59"	2A * <u>X</u> 3082-60			81
		6'	68-1/2"	2A * <u>X</u> 3082-72			91
		7'	78"	2A * <u>X</u> 3082-84			115
		8'	96-3/4"	2A * <u>X</u> 3082-96			124
		9'	106-1/4"	2A * <u>X</u> 3082-108			138
		10'	115-1/2"	2A * <u>X</u> 3082-120			148
		11'	134-1/2"	2A * <u>X</u> 3082-132			162
		12'	143-3/4"	2A * <u>X</u> 3082-144			171
		13'	153-1/4"	2A * <u>X</u> 3082-156			181
		14'	162-3/4"	2A * <u>X</u> 3082-168			209

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

Effective: 01/01/13

ECHELON II®



1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
Classic = C B = Black
Majestic = M W = White
Genesis = G N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
7' Tall	3-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 3082-42R			64
		4'	49-1/2"	2A * <u>X</u> 3082-48R			74
		5'	59"	2A * <u>X</u> 3082-60R			84
		6'	68-1/2"	2A * <u>X</u> 3082-72R			95
		7'	78"	2A * <u>X</u> 3082-84R			120
		8'	96-3/4"	2A * <u>X</u> 3082-96R			130
		9'	106-1/4"	2A * <u>X</u> 3082-108R			148
		10'	115-1/2"	2A * <u>X</u> 3082-120R			159
		11'	134-1/2"	2A * <u>X</u> 3082-132R			174
		12'	143-3/4"	2A * <u>X</u> 3082-144R			183
		13'	153-1/4"	2A * <u>X</u> 3082-156R			194
		14'	162-3/4"	2A * <u>X</u> 3082-168R			223
8' Tall	4-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 4094-42			73
		4'	49-1/2"	2A * <u>X</u> 4094-48			84
		5'	59"	2A * <u>X</u> 4094-60			95
		6'	68-1/2"	2A * <u>X</u> 4094-72			107
		7'	78"	2A * <u>X</u> 4094-84			136
		8'	96-3/4"	2A * <u>X</u> 4094-96			147
		9'	106-1/4"	2A * <u>X</u> 4094-108			181
		10'	115-1/2"	2A * <u>X</u> 4094-120			193
		11'	134-1/2"	2A * <u>X</u> 4094-132			210
		12'	143-3/4"	2A * <u>X</u> 4094-144			223
		13'	153-1/4"	2A * <u>X</u> 4094-156			235
		14'	162-3/4"	2A * <u>X</u> 4094-168			271
	4-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 4094-42R			77
		4'	49-1/2"	2A * <u>X</u> 4094-48R			89
		5'	59"	2A * <u>X</u> 4094-60R			102
		6'	68-1/2"	2A * <u>X</u> 4094-72R			115
		7'	78"	2A * <u>X</u> 4094-84R			145
		8'	96-3/4"	2A * <u>X</u> 4094-96R			157
		9'	106-1/4"	2A * <u>X</u> 4094-108R			181
		10'	115-1/2"	2A * <u>X</u> 4094-120R			193
		11'	134-1/2"	2A * <u>X</u> 4094-132R			210
		12'	143-3/4"	2A * <u>X</u> 4094-144R			223
		13'	153-1/4"	2A * <u>X</u> 4094-156R			235
		14'	162-3/4"	2A * <u>X</u> 4094-168R			271

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

Style Selection = * X = Color Selection
Classic = C B = Black
Majestic = M W = White
Genesis = G N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
9' Tall	4-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 4106-42			80
		4'	49-1/2"	2A * <u>X</u> 4106-48			92
		5'	59"	2A * <u>X</u> 4106-60			105
		6'	68-1/2"	2A * <u>X</u> 4106-72			117
		7'	78"	2A * <u>X</u> 4106-84			149
		8'	96-3/4"	2A * <u>X</u> 4106-96			161
	4-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 4106-42R			84
		4'	49-1/2"	2A * <u>X</u> 4106-48R			97
		5'	59"	2A * <u>X</u> 4106-60R			112
		6'	68-1/2"	2A * <u>X</u> 4106-72R			125
		7'	78"	2A * <u>X</u> 4106-84R			158
		8'	96-3/4"	2A * <u>X</u> 4106-96R			171
10' Tall	4-Rail	3-1/2'	40-1/4"	2A * <u>X</u> 4118-42			88
		4'	49-1/2"	2A * <u>X</u> 4118-48			100
		5'	59"	2A * <u>X</u> 4118-60			114
		6'	68-1/2"	2A * <u>X</u> 4118-72			128
		7'	78"	2A * <u>X</u> 4118-84			162
		8'	96-3/4"	2A * <u>X</u> 4118-96			176
	4-Rail (With Rings)	3-1/2'	40-1/4"	2A * <u>X</u> 4118-42R			92
		4'	49-1/2"	2A * <u>X</u> 4118-48R			105
		5'	59"	2A * <u>X</u> 4118-60R			121
		6'	68-1/2"	2A * <u>X</u> 4118-72R			136
		7'	78"	2A * <u>X</u> 4118-84R			171
		8'	96-3/4"	2A * <u>X</u> 4118-96R			186

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

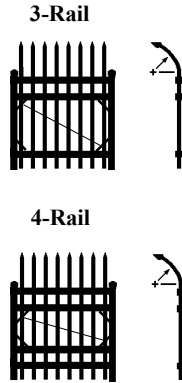
ECHELON II®



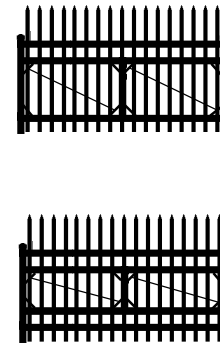
1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED INVINCIBLE GATES

Curved Picket Style Choices
INVINCIBLE™



For additional strength; all gate leaves greater than 6 feet in width will have an intermediate center upright, gusset plates will be welded in all four corners, and the appropriate quantity of turnbuckle and cable kits will be included.



Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

X = Color Selection
B = Black
W = White
N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
7' Tall	3-Rail	3-1/2'	40"	2AI <u>X</u> 3082-42			64
		4'	44-3/4"	2AI <u>X</u> 3082-48			73
		5'	58-7/8"	2AI <u>X</u> 3082-60			83
		6'	68-1/4"	2AI <u>X</u> 3082-72			93
		7'	82-3/8"	2AI <u>X</u> 3082-84			117
		8'	91-7/8"	2AI <u>X</u> 3082-96			127
		9'	106"	2AI <u>X</u> 3082-108			146
		10'	115-3/8"	2AI <u>X</u> 3082-120			156
		11'	129-1/2"	2AI <u>X</u> 3082-132			166
		12'	139"	2AI <u>X</u> 3082-144			173
		13'	153-1/8"	2AI <u>X</u> 3082-156			185
		14'	167-1/4"	2AI <u>X</u> 3082-168			219
8' Tall	4-Rail	3-1/2'	40"	2AI <u>X</u> 4094-42			75
		4'	44-3/4"	2AI <u>X</u> 4094-48			86
		5'	58-7/8"	2AI <u>X</u> 4094-60			97
		6'	68-1/4"	2AI <u>X</u> 4094-72			109
		7'	82-3/8"	2AI <u>X</u> 4094-84			138
		8'	91-7/8"	2AI <u>X</u> 4094-96			149
		9'	106"	2AI <u>X</u> 4094-108			172
		10'	115-3/8"	2AI <u>X</u> 4094-120			183
		11'	129-1/2"	2AI <u>X</u> 4094-132			195
		12'	139"	2AI <u>X</u> 4094-144			205
		13'	153-1/8"	2AI <u>X</u> 4094-156			218
		14'	167-1/4"	2AI <u>X</u> 4094-168			257

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.

Effective: 01/01/13

ECHELON II®



AMERISTAR®
FENCE PRODUCTS

1-888-333-3422
FAX: 1-877-926-3747

ALUMINUM WELDED INVINCIBLE GATES

Custom gate dimensions are available upon request, but incur a 10% engineering charge based on the nearest larger standard gate leaf.

X = Color Selection
B = Black
W = White
N = Bronze
S = Desert Sand

GATE HEIGHT	RAIL QTY	NOMINAL GATE OPENING	ACTUAL GATE LEAF WIDTH	ITEM NUMBER	CATALOG PRICE (BLACK)	CATALOG PRICE (COLOR)	GATE WEIGHT
9' Tall	4-Rail	3-1/2'	40"	2AI <u>X</u> 4106-42			82
		4'	44-3/4"	2AI <u>X</u> 4106-48			94
		5'	58-7/8"	2AI <u>X</u> 4106-60			107
		6'	68-1/4"	2AI <u>X</u> 4106-72			119
		7'	82-3/8"	2AI <u>X</u> 4106-84			151
		8'	91-7/8"	2AI <u>X</u> 4106-96			163
10' Tall	4-Rail	3-1/2'	40"	2AI <u>X</u> 4118-42			91
		4'	44-3/4"	2AI <u>X</u> 4118-48			103
		5'	58-7/8"	2AI <u>X</u> 4118-60			117
		6'	68-1/4"	2AI <u>X</u> 4118-72			131
		7'	82-3/8"	2AI <u>X</u> 4118-84			165
		8'	91-7/8"	2AI <u>X</u> 4118-96			179

Note: Gate Hardware is not included. Available Gate Hardware Kits are located in the Ornamental Gate Hardware Section.