ECHELON PLUS®

ORNAMENTAL ALUMINUM FENCE

Echelon Plus has taken the quality and performance of aluminum ornamental fencing to a higher level. The strength characteristics of the reinforced rail and posts, coupled with a superior powder coat finish, make Echelon Plus the most durable .75" ornamental picket product on the market.

The sleek design and superior quality of Echelon Plus is International Building Code (IBC) compliant.

- Exceeds all IBC 2018 Handrail & Guards load requirements
- Standard 8 ft. panels yield project savings
- Redesigned rail for increased strength and maximum load capacity

FENCE PRODUCTS

AMERISTARFENCE.COM | 888-333-3422

Experience a safer and more open world

AMERISTAR®

ASSA ABLOY

ECHELON PLUS®

Majestic Puppy Panel 4-rail 4' ht.

Monarch 2-rail 4' ht.

PICKETS

.75" SQ. x .045"

RAILS

1.4375" x 1.25" x (.110" SIDE / .090" TOP)
FORERUNNER® RAILS

POSTS

2.5" SQ. x .060"
With reinforced internal web.

HEIGHTS

3', 3½', 4', 4½', 5', 6'
Custom heights also available.

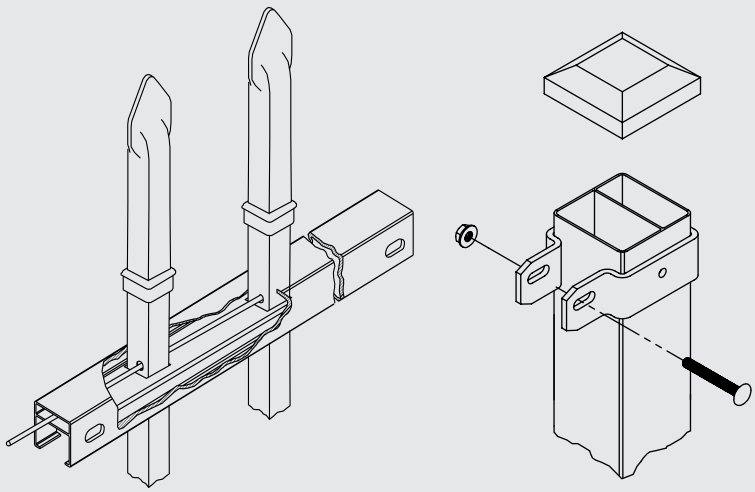
STYLES

CLASSIC™ MAJESTIC™ GENESIS™ CONQUEROR™ WARRIOR™

Note: Monarch 2-Rail and Classic, Majestic, Genesis & Warrior 3- & 4-rail panels are IBC compliant.

FORERUNNER® LOCKING SYSTEM

Ameristar reengineered the Echelon Plus ForeRunner rail for optimal performance and strength. The center rib on the reinforced post increases strength against wind loading and other horizontally applied forces.



Echelon fence systems are protected to endure the elements and are maintenance free.

PROTECTED BY POWDER COATING

Echelon fence systems are backed by over 40 years of excellence in the fencing industry.

LIFETIME WARRANTY

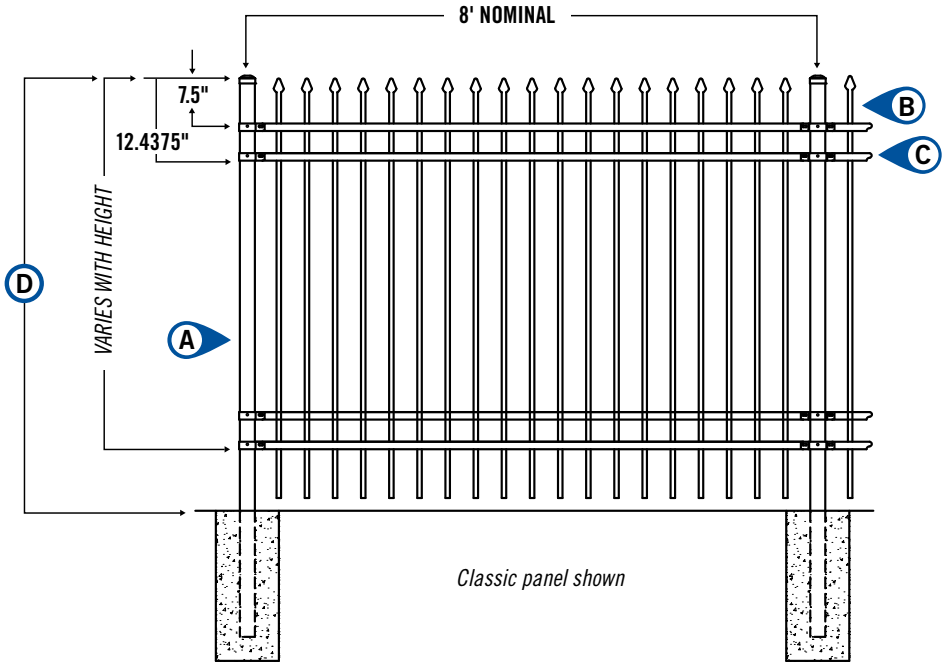
Ameristar is committed to providing products that meet the Buy American Act.

MEETS BUY AMERICAN ACT

ECHELON PLUS® | 2, 3 & 4-RAIL OPTIONS | 4" AIR-SPACE

STANDARD BOTTOM & FLUSH BOTTOM OPTIONS AVAILABLE

PATENT NUMBER: 6254064, 6969051, D622870



- (A) **2.5"sq x .060" POSTS** *(with reinforced internal web)*
- (B) **.75"sq x 0.045" wall PICKETS**
- (C) **1.4375"w x 1.25"h** *(0.110" side / 0.090" top)* **ForeRunner RAILS**
- (D) **3', 3½', 4', 4½', 5' & 6' PANEL HEIGHTS**

PANELS REQUIRE ASSEMBLY - Refer to construction specification & tables within this section for recommended post space by bracket type.

Classic, Majestic, Genesis & Warrior styles with 3 & 4-rail configurations as well as 4-rail puppy panel styles are IBC compliant. See specification for more details.

Effective: 03/01/23

ECHELON PLUS® | 3-RAIL PANELS | 4" AIR SPACE

STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

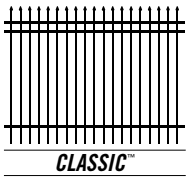
PANEL	ITEM NUMBER	WEIGHT	STOCKING
3'	1A☒⊗3368R1	23 lbs	⦸
3½'	1A☒⊗3428R1	25 lbs	⦸
4'	1A☒⊗3488R1	26 lbs	CB MB GB WB RB
5'	1A☒⊗3608R1	29 lbs	CB MB GB WB RB
6'	1A☒⊗3728R1	32 lbs	⦸

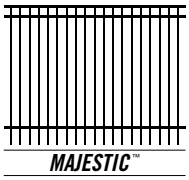
☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⦸ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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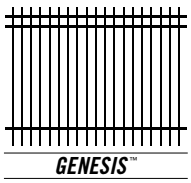
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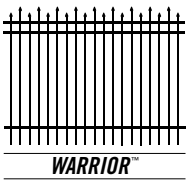
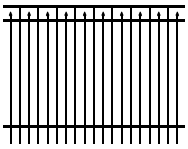

WARRIOR™


CONQUEROR™

ECHELON PLUS® | 3-RAIL PANELS | 4" AIR SPACE

FLUSH BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

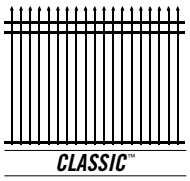
PANEL	ITEM NUMBER	WEIGHT	STOCKING
3'	1A☒⊗3368FR1	23 lbs	⦸
3½'	1A☒⊗3428FR1	25 lbs	⦸
4'	1A☒⊗3488FR1	26 lbs	⦸
5'	1A☒⊗3608FR1	29 lbs	⦸
6'	1A☒⊗3728FR1	32 lbs	⦸

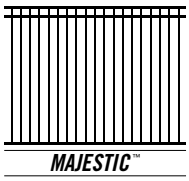
☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⦸ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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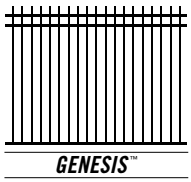
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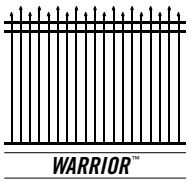
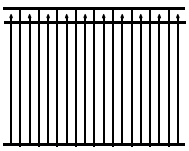

WARRIOR™


CONQUEROR™

ECHELON PLUS® | 3-RAIL PANELS WITH RINGS | 4" AIR SPACE

STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

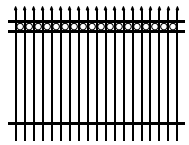
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4'	1A☒⊗3488RR1	31 lbs	⊘
5'	1A☒⊗3608RR1	33 lbs	⊘
6'	1A☒⊗3728RR1	37 lbs	⊘

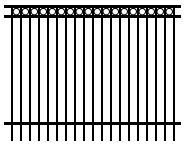
☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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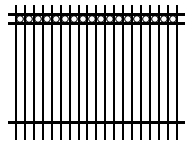
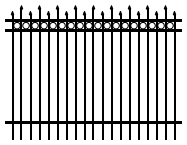

GENESIS™


WARRIOR™

ECHELON PLUS® | 4-RAIL PANELS | 4" AIR SPACE

STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

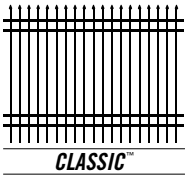
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4'	1A☒⊗4488R1	32 lbs	⦸
5'	1A☒⊗4608R1	35 lbs	⦸
6'	1A☒⊗4728R1	37 lbs	CB MB

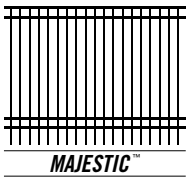
☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⦸ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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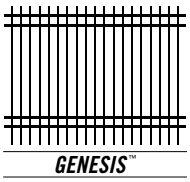
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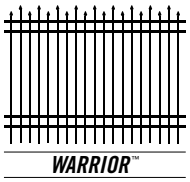
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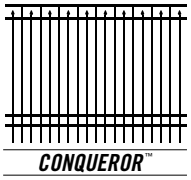

CONQUEROR™

ECHELON PLUS® | 4-RAIL PANELS | 4" AIR SPACE

FLUSH BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

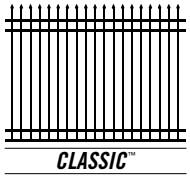
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4'	1A☒⊗4488FR1	32 lbs	⦸
5'	1A☒⊗4608FR1	35 lbs	⦸
6'	1A☒⊗4728FR1	37 lbs	⦸

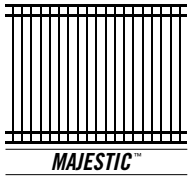
☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⦸ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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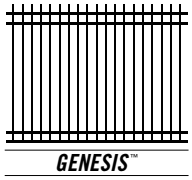
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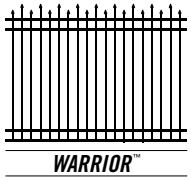
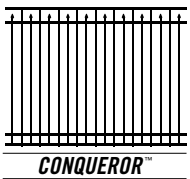

WARRIOR™


CONQUEROR™

ECHELON PLUS® | 4-RAIL PANELS WITH RINGS | 4" AIR SPACE

STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

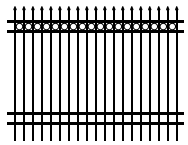
PANEL	ITEM NUMBER	WEIGHT	STOCKING
6'	1A☒⊗4728RR1	41 lbs	⊘

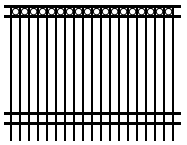
☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic, Majestic, Genesis & Warrior styles are IBC compliant.


CLASSIC™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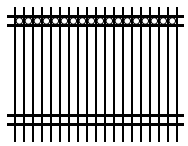
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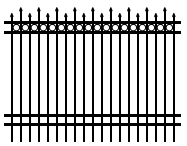

WARRIOR™

Effective: 03/01/23

ECHELON PLUS® | 2-RAIL POOL PANELS | 4" AIR SPACE

FLUSH BOTTOM | 6' PANEL LENGTH *(73.0625" actual width)* **| 15 PICKETS PER PANEL | ASSEMBLY REQUIRED**

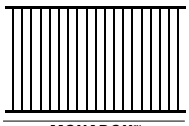
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4' POOL	1AM⊗2486R1*	17 lbs	MB* MN*

☒ = ***FENCE STYLES AVAILABLE*** | M = Monarch*

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Monarch style is IBC compliant.


MONARCH™

ECHELON PLUS® | 3-RAIL POOL PANELS | 4" AIR SPACE

FLUSH BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 PICKETS PER PANEL | ASSEMBLY REQUIRED**

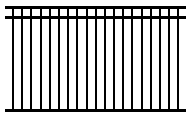
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4½' POOL	1A☒⊗3548R1	27 lbs	MB MN RB RN
4½' POOL	1AM⊗3548RR1	32 lbs	⃠

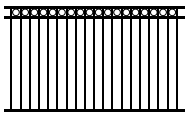
☒ = ***FENCE STYLES AVAILABLE*** | M = Majestic R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Majestic styles are IBC compliant.


MAJESTIC™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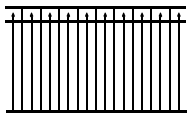

CONQUEROR™

ECHELON PLUS® | 3-RAIL PUPPY PANELS

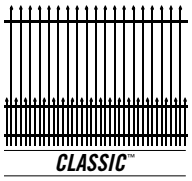
STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 / 20† PICKETS PER PANEL | ASSEMBLY REQUIRED**

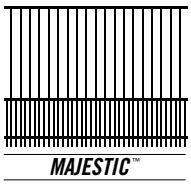
PANEL	ITEM NUMBER	WEIGHT	STOCKING
4'	1A☒⊗3488DR1	38 lbs	⃠
5'	1A☒⊗3608DR1	41 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™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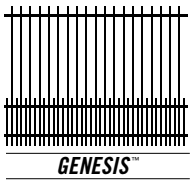

GENESIS™

ECHELON PLUS® | 4-RAIL PUPPY PANELS

STANDARD BOTTOM | 8' PANEL LENGTH *(91.75" actual width)* **| 19 / 20† PICKETS PER PANEL | ASSEMBLY REQUIRED**

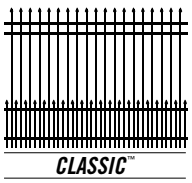
PANEL	ITEM NUMBER	WEIGHT	STOCKING
6'	1A☒⊗4728DR1	47 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

NOTE: Classic Majestic & Genesis styles are IBC compliant.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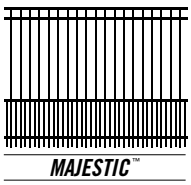
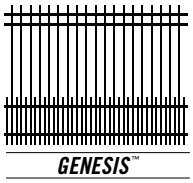
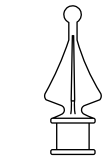

MAJESTIC™


GENESIS™

Effective: 03/01/23

ECHELON PLUS® | FINIALS & ADORNMENTS

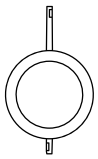
FINIALS & PICKET PLUGS FOR GENESIS PANELS ONLY | ADORNMENTS FOR 3-RAIL PANELS ONLY



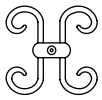
QUAD FLARE
.75" / .12 lbs
A⊗920R1

TRIAD
.75" / .12 lbs
A⊗900R1

ROYALTY
.75" / .13 lbs
A⊗921



RING
4" / .72 lbs
A⊗901



BUTTERFLY SCROLL
4" x 3.5" / .2 lbs
H⊗506NR1

.75" PRESS FIT PICKET FINIALS

» **19 finals required per panel**

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

NOTE: Picket plugs are available in bag quantities only / 19 plugs per bag
Item number: PB7519P = **B** / PW7519P = **W**

ECHELON PLUS PANEL ADORNMENTS

» **#10 x .75" self-drilling screws included**

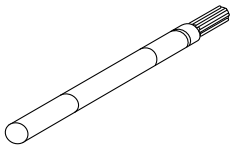
» **H⊗0506 = 20 per box | A⊗901 = 18 per box**

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

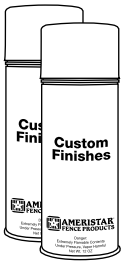
ECHELON PLUS® | CUSTOM FINISHES

WARRANTY ON CUT COMPONENTS VOID WITHOUT PROPER TOUCH-UP APPLICATION*

**For details & the guidelines for the proper 3-step process, see Ameristar's Sales Policy in the catalog guide*



PAINT PEN
.5 lbs / P⊗100

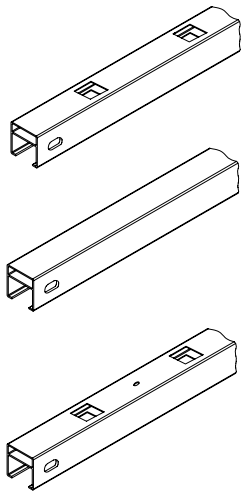


SPRAY PAINT
1.1 lbs / F⊗100

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

ECHELON PLUS® | BULK RAILS

RAILS AVAILABLE IN BOX QTY ONLY | 540 RAILS PER PALLET



DESCRIPTION	PANEL HEIGHT	LENGTH	ITEM NUMBER	BOX QTY	BOX WEIGHT
ForeRunner Rail / Through Punched	8'	91.75"	AC⊗R18R1	18	82 lbs
	6'	73.0625"	AC⊗R16R1	18	66 lbs
Used for all rails on Classic, Genesis & Warrior styles. Includes grommets & retaining rods.					
ForeRunner Rail / Flush Top	8'	91.75"	AM⊗R18R1	18	82 lbs
	6'	73.0625"	AM⊗R16R1	18	66 lbs
ForeRunner Ring Rail / Flush Top	8'	91.75"	AMR⊗R18R1	18	82 lbs
	6'	73.0625"	AMR⊗R16R1	18	66 lbs
Used for top rails on Monarch, Majestic & Conqueror styles. Includes retaining rods.					
ForeRunner Ring Rail / Through Punched	8'	91.75"	AR⊗R18R1	18	82 lbs
	6'	73.0625"	AR⊗R16R1	18	66 lbs
Used for second rail on all panels with rings. Includes grommets & retaining rods.					

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

ECHELON PLUS® | BULK PICKETS

PICKETS AVAILABLE IN BOX QTY ONLY

PANEL STYLES/PICKETS	PICKET DESCRIPTION	PICKET LENGTH	ITEM NUMBER	BOX QTY	BOX WEIGHT	STOCKING
Classic / Majestic / Genesis	Full Length	46"	1A ☒⊗348	114	65 lbs	CB MB GB
Classic / Majestic / Genesis	Full Length	58"	1A ☒⊗360	114	83 lbs	CB MB GB
Classic / Majestic / Genesis	Full Length	70"	1A ☒⊗472	114	99 lbs	MB
Conqueror	Full Length	46"	1A LR⊗348	114	69 lbs	⊘
Conqueror	Full Length	54"	1A LR⊗354	114	69 lbs	⊘
Conqueror	Full Length	58"	1A LR⊗360	114	69 lbs	⊘
Conqueror	Full Length	70"	1A LR⊗372	114	69 lbs	⊘
Majestic	Full Length	54"	1A M⊗354	114	69 lbs	MB
Monarch	Full Length	48"	1A M⊗248*	114	65 lbs	MB
Warrior	Short	43"	1A W⊗348	114	65 lbs	WB
Warrior	Short	55"	1A W⊗360	114	83 lbs	WB
Warrior	Short	67"	1A W⊗472	114	99 lbs	⊘
Conqueror	Short	43"	1A R⊗348	114	61 lbs	⊘
Conqueror	Short	51"	1A R⊗354	114	77 lbs	⊘
Conqueror	Short	55"	1A R⊗360	114	83 lbs	⊘
Conqueror	Short	67"	1A R⊗472	114	99 lbs	⊘

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic / Monarch* G = Genesis W = Warrior R = Conqueror

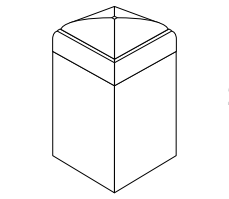
⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide. Note: Full length Classic pickets are used for the Warrior style.

** Flush bottom per pool requirements. Check pool code regulations in your installation area for specific requirements.*

Effective: 03/01/23

ECHELON PLUS® | ALUMINUM SQUARE POSTS

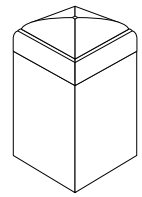


ALUMINUM POSTS

	POST LENGTH	ITEM NUMBER	WEIGHT
2.5"sq. x .060 wall with reinforced internal web	5' 9"	AP⊗25069	5 lbs
	6' 3"	AP⊗25075	6 lbs
	6' 9"	AP⊗25081	6 lbs
	7' 9"	AP⊗25093	7 lbs
	8' 9"	AP⊗25105	8 lbs
3"sq. x .125 wall	7'	AP⊗30084	12 lbs
	8'	AP⊗30096	14 lbs
	9'	AP⊗30108	15 lbs
	10'	AP⊗30120	17 lbs
4"sq. x .250 wall	7'	AP⊗40084N	31 lbs
	8'	AP⊗40096N	36 lbs
	9'	AP⊗40108N	40 lbs
	10'	AP⊗40120N	43 lbs

⊗ = *COLOR OPTIONS AVAILABLE* | B = Black N = Bronze W = White

ECHELON PLUS® | ORNAMENTAL STEEL SQUARE POSTS



STEEL POSTS

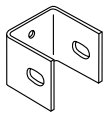
	POST LENGTH	ITEM NUMBER	WEIGHT
3"sq. x 12 ga.	5'	P⊗30060	20 lbs
	6'	P⊗30072	24 lbs
	7'	P⊗30084	30 lbs
	8'	P⊗30096	34 lbs
	9'	P⊗30108	39 lbs
	10	P⊗30120	43 lbs
4"sq. x 11 ga.	6'	P⊗40072	39 lbs
	7'	P⊗40084	47 lbs
	8'	P⊗40096	54 lbs
	9'	P⊗40108	61 lbs
	10	P⊗40120	67 lbs

⊗ = *COLOR OPTIONS AVAILABLE* | B = Black N = Bronze W = White

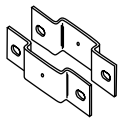
ECHELON PLUS® | BRACKETS & PANEL ACCESSORIES

AVAILABLE IN BAG QTY ONLY

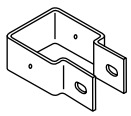
DESCRIPTION	SIZE	ITEM NUMBER	BAG QTY	BOX QTY	WEIGHT
Swivel Bracket	1.5"	AB⊗2	**2**	**45 bags**	**.14 lbs**
Bags packaged with: Self-drilling screws | Swivel Bracket not to be used for fence systems requiring IBC Compliance					



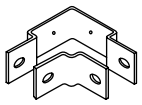
Flat Mount Bracket	1.5"	AB⊗1	**2**	**75 bags**	**.12 lbs**
Bags packaged with: #14 x .75" self-drilling screws | .25" x 2" carriage bolts | .25" flange nuts					
Thru-bolt required at post connection for IBC Compliance; not included with AB⊗1. .25" x 3" Carriage Bolt and nut combination required for 2.5" post thru-bolt connection.					



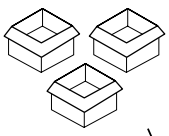
Line Boulevard Bracket	2.5" sq	AB⊗3	**2**	**50 bags**	**.41 lbs**
For joining two adjacent panels in line. Fasteners included.					



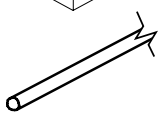
End Boulevard Bracket	2.5" sq	AB⊗4	**2**	**40 bags**	**.34 lbs**
For joining post to last panel in line. Fasteners included.					



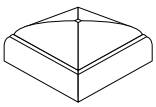
Corner Boulevard Bracket	2.5" sq	AB⊗5	**2**	**50 bags**	**.41 lbs**
For joining two panels that meet at right angles. Fasteners included.					



Grommet Sets	.75" sq.	⊗G7520P	**20**	**n/a**	**.25 lbs**



Retaining Rod	91.75"	H533P	**1**	**1**	**.32 lbs**
	71.375"	H532P	**1**	**1**	**.25 lbs**
Galvanized rod / .125" diameter					

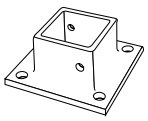


STANDARD FLAT CAP
Aluminum

CAP SIZE	ITEM NUMBER	WEIGHT EA.
2.5"sq	A⊗600P	**.2 lbs**
3"sq	A⊗700P	**.3 lbs**
4"sq	A⊗800P	**.4 lbs**

BALL CAP
Aluminum

CAP SIZE	ITEM NUMBER	WEIGHT EA.
2.5"sq	A⊗513R1	**.7 lbs**
3"sq	A⊗516R1	**.8 lbs**
4"sq	A⊗517	**2 lbs**



POST BASE
Aluminum

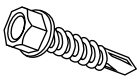
BASE SIZE	ITEM NUMBER	WEIGHT EA.
5" sq	APB⊗25	**2 lbs**

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

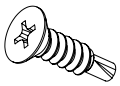
Effective: 03/01/23

ECHELON PLUS® | FASTENERS

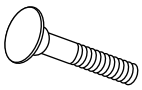
AVAILABLE IN BOX QUANTITIES ONLY



DESCRIPTION	ITEM NUMBER	BAG QTY	ITEM WEIGHT
#14 x .75" Tek Screw	H⊗524P-50	50	.6 lbs
#10 x .75" Tek Screw	H⊗539P-50	50	.35 lbs



#10 x .625" Phillips Head Tek Screw	H⊗519P	1	.005 lbs
For setting angle on swivel brackets			



.25" x 2" Carriage Bolt	H⊗516P	1	.03 lbs
.3125" x .75" Carriage Bolt	H⊗582P	1	.025 lbs
.25" x 3" Carriage Bolt	6110P	1	.04 lbs
.25" x 3.5" Carriage Bolt	B6116P	1	.05 lbs

2" carriage bolts for brackets

.75" carriage bolts for post base.

3" and 3.5" carriage bolts for flat mount bracket to post thru-bolt installation required for IBC applications.

.25" Flange Nut	H⊗541P-20	20	.3 lbs

.3125" Hex Nuts	H⊗613	1	.011 lbs

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

Effective: 03/01/23

ECHELON PLUS® | CONSTRUCTION SPECIFICATION 32 31 19

ALUMINUM ORNAMENTAL FENCE SYSTEM – INTERNALLY SECURED

PART 1 - GENERAL

1.01 WORK INCLUDED

The contractor shall provide all labor, materials, and all necessary items for the installation of the Echelon Plus® 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 ornamental aluminum fencing system of the Ameristar Echelon Plus® (**specify Classic™, Majestic™, Genesis™, Warrior™, Conqueror™, Monarch™, Pool or Puppy**) design. The system shall include all components (i.e., pickets, posts, rails, 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 the materials 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.
- ASTM D6695 – Standard Practice for Xenon-Arc Exposures of Paint and Related Coatings
- IBC 2018 1607.8.1 Handrails and Guards

1.06 SUBMITTAL

The manufacturer's submittal package shall be submitted prior to installation to confirm compliance with all requirements for materials specified in this section.

1.07 PRODUCT HANDLING AND STORAGE

Upon receipt at the job site, all materials shall be checked to ensure that no damages 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 ornamental fence system shall conform to Ameristar's Echelon Plus aluminum ornamental fencing, (**specify Classic, Majestic, Genesis, Warrior, Conqueror, Monarch Pool, Majestic Pool, Conqueror Pool, Classic Puppy, Majestic Puppy, or Genesis Puppy**) (**specify 2-rail, 3-rail, 4-rail, 3-rail with rings, or 4-rail with rings**) style manufactured by Ameristar Perimeter Security USA 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-T5. The aluminum extrusions for pickets shall be Alloy and Temper Designation 6063-T52.

B. Pickets shall be 3/4" square x .045" thick. Horizontal rails shall be 1-1/4" x 1-7/16" Forerunner™ profile with .090" top wall, .060" internal web, and .110" side walls. Forerunner rails shall be punched to accept pickets. The rail shall be constructed with an internal web providing a raceway for the pickets to be retained with a 1/8" retaining rod. The number of rails shall vary with the style, height and strength as determined by manufacturer. Fence posts and gate posts shall meet the minimum size requirements of Table 1.

C. Accessories: Aluminum castings shall be used for all post caps, scrolls, finials, and other miscellaneous hardware. Hinges and latches shall be fabricated from aluminum, stainless steel or composite materials.

2.03 FABRICATION

A. Pickets, rails and posts shall be pre-cut to specified lengths. ForeRunner rails shall be pre-punched to accept pickets. 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 upper raceway of the 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. Panels without rings shall be biasable up to a 12% change in grade.

ECHELON PLUS® | CONSTRUCTION SPECIFICATION 32 31 19

ALUMINUM ORNAMENTAL FENCE SYSTEM – INTERNALLY SECURED

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, or White**). The stratification-coated framework shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2.

C. Finish: All fence components shall be subject to a six-stage pretreatment/wash followed by an electrostatic spray application of a "no-mar" TGIC polyester powder coat finish with a minimum thickness of 2-4 mils. The color shall be (specify black, bronze or white).

D. Classic, Majestic, Genesis & Warrior styles with 3 & 4-rail configurations as well as 4-rail Puppy panel styles shall meet IBC compliance. Panel, post and bracket assemblies shall be subjected to structural performance testing according to Chapter 17 – Structural Tests and Special Inspections – International Building Code (IBC) 2018. Physical testing to be completed by accredited third party testing facility. Completed assembly shall demonstrate loading capacity of 2.5 times prescribed design loads found in section 1607.8.1, 1607.8.1.1 and 1607.8.1.2 of IBC 2018 for Handrails and Guards. IBC compliant fence system requirements detailed within Table 4.

E. Swing gates shall be fabricated using 1-1/4" x 1-7/16" Forerunner rail, 1.75" sq. x .125" gate ends, and 3/4" sq. x .080 pickets. Gates that exceed 6' in width will have a 1.75" sq. x .125" intermediate upright. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also 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 of sufficient depth and diameter to meet project specific requirements and conforms to any federal, state, and/or local codes. 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 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

SEE REFERENCED TABLES ON THE FOLLOWING PAGE

ECHELON PLUS® | CONSTRUCTION SPECIFICATION 32 31 19

ALUMINUM ORNAMENTAL FENCE SYSTEM – INTERNALLY SECURED

TABLE 1 - MINIMUM SIZES FOR ECHELON PLUS POSTS

FENCE POSTS	PANEL HEIGHTS		
2½" x 2½" x .060" w/reinforced web	Up to 6' Height		
GATE LEAF	GATE HEIGHT		
	up to & including 4'	over 4' up to & including 5'	over 5' up to & including 6'
up to 4'	2½" x 2½" x .060 Alum.	3" x 3" x .120" Alum.	4" x 4" x .250" Alum. or 3" x 3" x 12 ga. Steel
4'-1" to 6'	3" x 3" x .120" Alum.	4" x 4" x .250" Alum. or 3" x 3" x 12 ga. Steel	3" x 3" x 12 ga. Steel
6'-1" to 8'	4" x 4" x .250" Alum. or 3" x 3" x 12 ga. Steel	4" x 4" x 11 ga. Steel	4" x 4" x 11 ga. 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" 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 PLUS POST SPACING BY BRACKET TYPE

SPAN	8' Nominal (91-3/4" Rail)				
POST SIZE	2½"	2½"	3"	2½"	3"
BRACKET TYPE	Echelon Plus Line Boulevard (ABB3)	Echelon Plus Swivel* (ABB2)		Echelon Plus Flat Mount (ABB1)	
POST SETTINGS ± ¼" O.C.	95"	*95"	*95½"	95"	95½"
SPAN	6' Nominal (73-1/16" Rail)				
POST SIZE	2½"	2½"	3"	2½"	3"
BRACKET TYPE	Echelon Plus Line Boulevard (ABB3)	Echelon Plus Swivel* (ABB2)		Echelon Plus Flat Mount (ABB1)	
POST SETTINGS ± ¼" O.C.	76¼"	*76¼"	*76¾"	76¼"	76¾"

*Note: When using ABB2 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.

TABLE 4 - ECHELON PLUS – IBC COMPLIANT SYSTEM REQUIREMENTS

PANEL OPTIONS		POST OPTIONS		BRACKET OPTIONS
Styles	Rail Configuration	Aluminum Post Options	Steel Post Options	Line Boulevard Brackets
Monarch	2-Rail	3" SQ x .125 wall	3" SQ x 12ga. & 4" SQ x 12ga.	End Boulevard Brackets
Classic	3-Rail & 4-Rail	2.5" SQ x .060 wall w/ internal web		Corner Boulevard Brackets
Majestic		3" SQ x .125 wall		*Flat Mount Brackets
Genesis		Plate Post Options (anchorage by others)		*Note: Flat Mount Brackets require a thru-bolt installation
Warrior		8" x 8" x 3/8" – for 2.5" posts / (Monarch) 3" posts		
Puppy Panel	4-Rail	10" x 10" x 3/8" – for 3" posts		

Panel, post, and bracket assemblies shall be subjected to structural performance testing according to Chapter 17 - Structural Tests and Special Inspections - International Building Code (IBC) 2018. Physical testing to be completed by accredited third party testing facility. Completed assembly shall demonstrate loading capacity of 2.5 times prescribed design loads found in section 1607.8.1, 1607.8.1.1 and 1607.8.1.2 of IBC 2018 for Handrails and Guards.

ECHELON PLUS® | LIMITED LIFETIME WARRANTY

ALUMINUM ORNAMENTAL FENCE

Echelon Plus® Ornamental Aluminum Fence System (premium residential and light commercial) 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 Echelon Plus aluminum fence panels and posts is guaranteed under a limited lifetime warranty under normal and intended usage, against cracking, peeling,chipping, blistering and corroding resulting in structural failure,without cause. Normal and intended usage does not include physical damage or abrasion to the protective coating.

Echelon Plus Ornamental Aluminum Fencing 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 it 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 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.

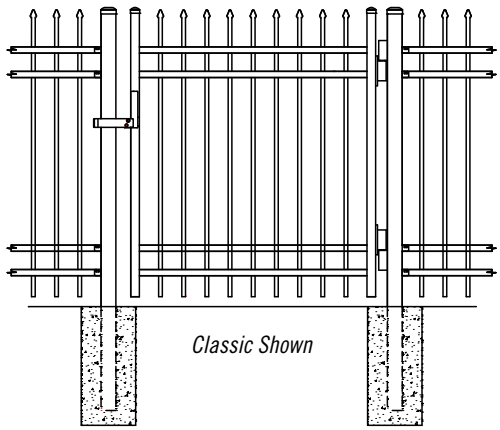
Upon validation of the claim by Ameristar Fence Products or its authorized representative, redemption by replacement or renewal shall be made by Ameristar Fence Products. Reimbursement for the costs of removal and installation of materials are not included in the guarantee, nor will Ameristar Fence Products 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 Echelon Plus Residential Ornamental Aluminum Fencing 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.

ECHELON PLUS® | SINGLE SWING GATE SPECIFICATIONS

1.75"sq x .125" wall GATE ENDS | 1.25" ForeRunner™ RAILS | .75"sq x .080" wall PICKETS

SINGLE SWING
DIMENSIONAL DRAWING

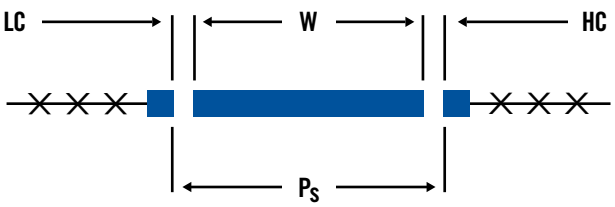


Classic Shown

SINGLE SWING
HARDWARE KITS & POST INTERSPACES

		TCSGK TRU-CLOSE HINGE KIT			AGBS25 / SGBS3 BOLT-ON HARDWARE KITS			SGBS25A / SGBS3A AMERISTAR LOCK / BOLT-ON HINGE KIT		
OPENING	**LEAF WIDTH***	**HC**	**LC**	**P_S**	**HC**	**LC**	**P_S**	**HC**	**LC**	**P_S**
3.5'	40"	.75"	.75"	41.5"	2"	2"	44"	2"	.625"	42.625"
4'	49.5"	.75"	.75"	51"	2"	2"	53.5"	2"	.625"	52.125"
5'	58.75"	.75"	.75"	60.25"	2"	2"	62.75"	2"	.625"	61.375"
6'	68"	.75"	.75"	69.5"	2"	2"	72"	2"	.625"	70.625"

W = width* | **HC** = hinge clearance | **LC** = latch clearance | **P_S** = gate post spacing**
** From outside to outside | ** From inside to inside*

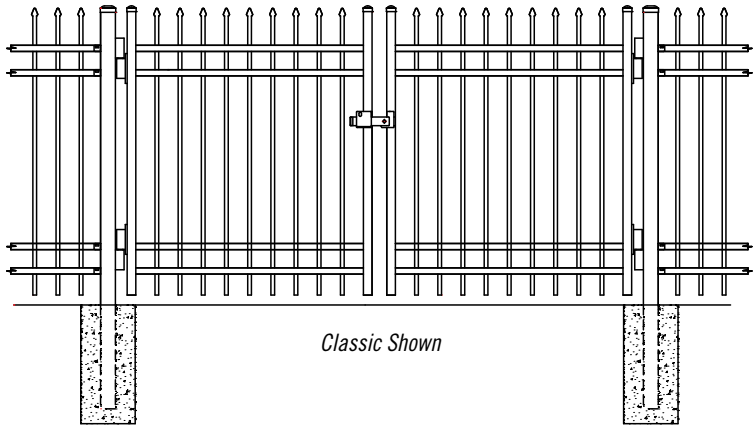


Effective: 03/01/23

ECHELON PLUS® | DOUBLE SWING GATE SPECIFICATIONS

1.75"sq x .125" wall GATE ENDS | 1.25" ForeRunner™ RAILS | .75"sq x .080" wall PICKETS

DOUBLE SWING
DIMENSIONAL DRAWING

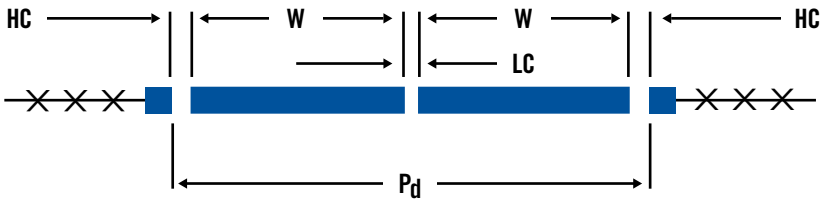


Classic Shown

DOUBLE SWING
HARDWARE KITS & POST INTERSPACES

		AGBD BOLT-ON HINGE KITS			AGBDX BOX HINGE KIT WITH UPRIGHT			CGBD COMMERCIAL HINGE KIT W/ STRONGARM		
OPENING	LEAF WIDTH*	HC	LC	P_d	HC	LC	P_d	HC	LC	P_d
7'	40"	2"	2"	86"	2.375"	2"	86.75"	1"	2"	84"
8'	49.5"	2"	2"	105"	2.375"	2"	105.75"	1"	2"	103"
10'	58.75"	2"	2"	123.5"	2.375"	2"	124.25"	1"	2"	121.5"
12'	68"	2"	2"	142"	2.375"	2"	142.75"	1"	2"	140"

W = width (x2)* | **HC** = hinge clearance (x2) | **LC** = latch clearance | **P_d** = gate post spacing**
** From outside to outside | ** From inside to inside*

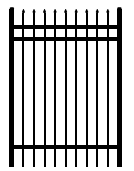


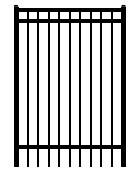
Effective: 03/01/23

ECHELON PLUS® | 3-RAIL SINGLE SWING GATES

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3' HEIGHT	3½'	40"	1A☒⊗336-42	7	19 lbs	⊘
	4'	49.5"	1A☒⊗336-48	9	24 lbs	⊘
	5'	58.75"	1A☒⊗336-60	11	28 lbs	⊘
	6'	68"	1A☒⊗336-72	13	31 lbs	⊘
3½' HEIGHT	3½'	40"	1A☒⊗342-42	7	21 lbs	⊘
	4'	49.5"	1A☒⊗342-48	9	26 lbs	⊘
	5'	58.75"	1A☒⊗342-60	11	30 lbs	⊘
	6'	68"	1A☒⊗342-72	13	33 lbs	⊘
4' HEIGHT	3½'	40"	1A☒⊗348-42	7	23 lbs	⊘
	4'	49.5"	1A☒⊗348-48	9	28 lbs	⊘
	5'	58.75"	1A☒⊗348-60	11	32 lbs	⊘
	6'	68"	1A☒⊗348-72	13	36 lbs	⊘
5' HEIGHT	3½'	40"	1A☒⊗360-42	7	27 lbs	⊘
	4'	49.5"	1A☒⊗360-48	9	32 lbs	⊘
	5'	58.75"	1A☒⊗360-60	11	36 lbs	⊘
	6'	68"	1A☒⊗360-72	13	41 lbs	⊘
6' HEIGHT	3½'	40"	1A☒⊗372-42	7	31 lbs	⊘
	4'	49.5"	1A☒⊗372-48	9	36 lbs	⊘
	5'	58.75"	1A☒⊗372-60	11	40 lbs	⊘
	6'	68"	1A☒⊗372-72	13	46 lbs	⊘


CLASSIC™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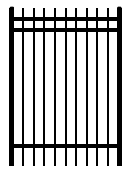
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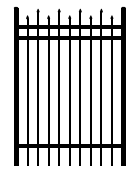
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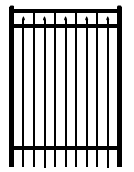

CONQUEROR™

☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

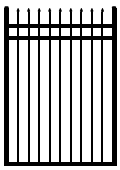
⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

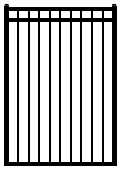
Effective: 03/01/23

ECHELON PLUS® | 3-RAIL SINGLE SWING GATES

FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3' HEIGHT	3½'	40"	1A☒⊗336-42F	7	19 lbs	⃠
	4'	49.5"	1A☒⊗336-48F	9	24 lbs	⃠
	5'	58.75"	1A☒⊗336-60F	11	28 lbs	⃠
	6'	68"	1A☒⊗336-72F	13	31 lbs	⃠
3½' HEIGHT	3½'	40"	1A☒⊗342-42F	7	21 lbs	⃠
	4'	49.5"	1A☒⊗342-48F	9	26 lbs	⃠
	5'	58.75"	1A☒⊗342-60F	11	30 lbs	⃠
	6'	68"	1A☒⊗342-72F	13	33 lbs	⃠
4' HEIGHT	3½'	40"	1A☒⊗348-42F	7	23 lbs	⃠
	4'	49.5"	1A☒⊗348-48F	9	28 lbs	⃠
	5'	58.75"	1A☒⊗348-60F	11	32 lbs	⃠
	6'	68"	1A☒⊗348-72F	13	36 lbs	⃠
5' HEIGHT	3½'	40"	1A☒⊗360-42F	7	27 lbs	⃠
	4'	49.5"	1A☒⊗360-48F	9	32 lbs	⃠
	5'	58.75"	1A☒⊗360-60F	11	36 lbs	⃠
	6'	68"	1A☒⊗360-72F	13	41 lbs	⃠
6' HEIGHT	3½'	40"	1A☒⊗372-42F	7	31 lbs	⃠
	4'	49.5"	1A☒⊗372-48F	9	36 lbs	⃠
	5'	58.75"	1A☒⊗372-60F	11	40 lbs	⃠
	6'	68"	1A☒⊗372-72F	13	46 lbs	⃠


CLASSIC™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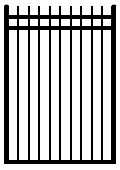
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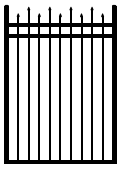
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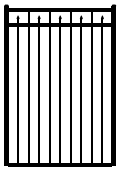

CONQUEROR™

☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

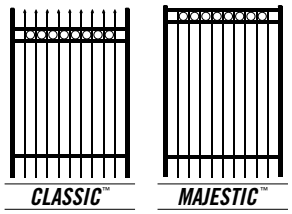
⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

** Flush bottom per pool requirements. Check pool code regulations in your installation area for specific requirements.*

ECHELON PLUS® | 3-RAIL SINGLE SWING GATES WITH RINGS

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3½'	40"	1A☒⊗348-42R	7	25 lbs	⃠
	4'	49.5"	1A☒⊗348-48R	9	31 lbs	⃠
	5'	58.75"	1A☒⊗348-60R	11	35 lbs	⃠
	6'	68"	1A☒⊗348-72R	13	40 lbs	⃠
5' HEIGHT	3½'	40"	1A☒⊗360-42R	7	29 lbs	⃠
	4'	49.5"	1A☒⊗360-48R	9	35 lbs	⃠
	5'	58.75"	1A☒⊗360-60R	11	39 lbs	⃠
	6'	68"	1A☒⊗360-72R	13	45 lbs	⃠
6' HEIGHT	3½'	40"	1A☒⊗372-42R	7	33 lbs	⃠
	4'	49.5"	1A☒⊗372-48R	9	39 lbs	⃠
	5'	58.75"	1A☒⊗372-60R	11	43 lbs	⃠
	6'	68"	1A☒⊗372-72R	13	49 lbs	⃠



☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

Effective: 03/01/23

ECHELON PLUS® | 4-RAIL SINGLE SWING GATES

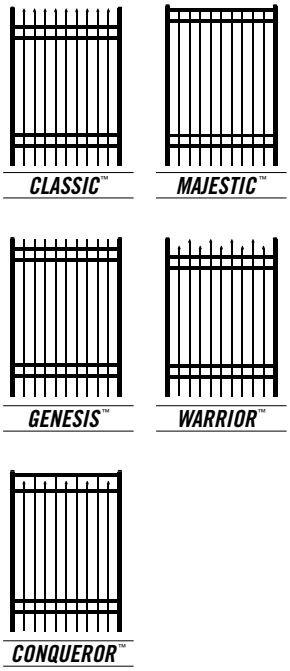
STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3½'	40"	1A☒⊗448-42	7	25 lbs	⊘
	4'	49.5"	1A☒⊗448-48	9	29 lbs	⊘
	5'	58.75"	1A☒⊗448-60	11	35 lbs	⊘
	6'	68"	1A☒⊗448-72	13	40 lbs	⊘
5' HEIGHT	3½'	40"	1A☒⊗460-42	7	29 lbs	⊘
	4'	49.5"	1A☒⊗460-48	9	34 lbs	⊘
	5'	58.75"	1A☒⊗460-60	11	39 lbs	⊘
	6'	68"	1A☒⊗460-72	13	45 lbs	⊘
6' HEIGHT	3½'	40"	1A☒⊗472-42	7	33 lbs	⊘
	4'	49.5"	1A☒⊗472-48	9	39 lbs	⊘
	5'	58.75"	1A☒⊗472-60	11	45 lbs	⊘
	6'	68"	1A☒⊗472-72	13	52 lbs	⊘

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.



ECHELON PLUS® | 4-RAIL SINGLE SWING GATES

FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3½'	40"	1A☒⊗448-42F	7	25 lbs	⊘
	4'	49.5"	1A☒⊗448-48F	9	29 lbs	⊘
	5'	58.75"	1A☒⊗448-60F	11	35 lbs	⊘
	6'	68"	1A☒⊗448-72F	13	40 lbs	⊘
5' HEIGHT	3½'	40"	1A☒⊗460-42F	7	29 lbs	⊘
	4'	49.5"	1A☒⊗460-48F	9	34 lbs	⊘
	5'	58.75"	1A☒⊗460-60F	11	39 lbs	⊘
	6'	68"	1A☒⊗460-72F	13	45 lbs	⊘
6' HEIGHT	3½'	40"	1A☒⊗472-42F	7	33 lbs	⊘
	4'	49.5"	1A☒⊗472-48F	9	39 lbs	⊘
	5'	58.75"	1A☒⊗472-60F	11	45 lbs	⊘
	6'	68"	1A☒⊗472-72F	13	52 lbs	⊘

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

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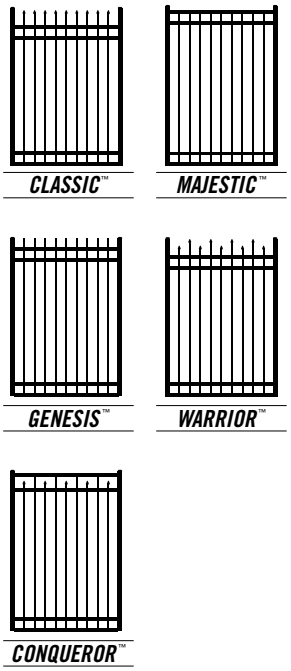
For details, see Ameristar's Sales Policy in the catalog guide



Effective: 03/01/23

ECHELON PLUS® | 4-RAIL SINGLE SWING GATES WITH RINGS

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

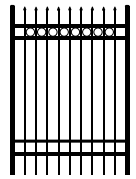
6' HEIGHT

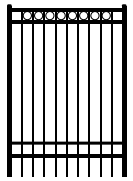
OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½'	40"	1A☒⊗472-42R	7	25 lbs	⃠
4'	49.5"	1A☒⊗472-48R	9	31 lbs	⃠
5'	58.75"	1A☒⊗472-60R	11	35 lbs	⃠
6'	68"	1A☒⊗472-72R	13	40 lbs	⃠

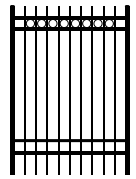
☒ = ***FENCE STYLES AVAILABLE*** | **C** = Classic **M** = Majestic **G** = Genesis **W** = Warrior

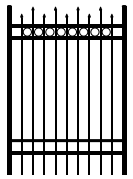
⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™


MAJESTIC™


GENESIS™


WARRIOR™

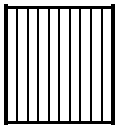
Effective: 03/01/23

ECHELON PLUS® | 2-RAIL SINGLE SWING POOL GATES

FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

4' HEIGHT

OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½' POOL	40"	1AM ⊗248-42*	7	25 lbs	⊘
4' POOL	49.5"	1AM ⊗248-48*	9	31 lbs	⊘
5' POOL	58.75"	1AM ⊗248-60*	11	35 lbs	⊘
6' POOL	68"	1AM ⊗248-72*	13	40 lbs	⊘


MONARCH™

☒ = ***FENCE STYLES AVAILABLE*** | **M** = Monarch*

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

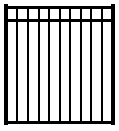
⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

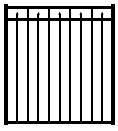
ECHELON PLUS® | 3-RAIL SINGLE SWING POOL GATES

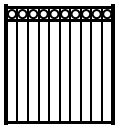
FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

4½' HEIGHT

OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½' POOL	40"	1A☒ ⊗354-42	7	29 lbs	⊘
4' POOL	49.5"	1A☒ ⊗354-48	9	35 lbs	⊘
5' POOL	58.75"	1A☒ ⊗354-60	11	39 lbs	⊘
6' POOL	68"	1A☒ ⊗354-72	13	45 lbs	⊘
3½' POOL	40"	1AM ⊗354-42R	7	29 lbs	⊘
4' POOL	49.5"	1AM ⊗354-48R	9	35 lbs	⊘
5' POOL	58.75"	1AM ⊗354-60R	11	39 lbs	⊘
6' POOL	68"	1AM ⊗354-72R	13	45 lbs	⊘


MAJESTIC™


CONQUEROR™


MAJESTIC™

☒ = ***FENCE STYLES AVAILABLE*** | **M** = Majestic **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⊘ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

ECHELON PLUS® | 3-RAIL SINGLE SWING PUPPY GATES

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3½'	40"	1A☒⊗348-42D	7	27 lbs	⃠
	4'	49.5"	1A☒⊗348-48D	9	33 lbs	⃠
	5'	58.75"	1A☒⊗348-60D	11	37 lbs	⃠
	6'	68"	1A☒⊗348-72D	13	43 lbs	⃠
5' HEIGHT	3½'	40"	1A☒⊗360-42D	7	31 lbs	⃠
	4'	49.5"	1A☒⊗360-48D	9	37 lbs	⃠
	5'	58.75"	1A☒⊗360-60D	11	42 lbs	⃠
	6'	68"	1A☒⊗360-72D	13	48 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

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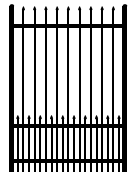
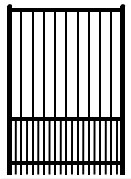
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™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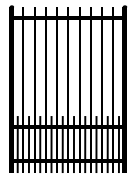
GENESIS™

ECHELON PLUS® | 4-RAIL SINGLE SWING PUPPY GATES

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
6' HEIGHT	3½'	40"	1A☒⊗472-42D	7	37 lbs	⃠
	4'	49.5"	1A☒⊗472-48D	9	44 lbs	⃠
	5'	58.75"	1A☒⊗472-60D	11	51 lbs	⃠
	6'	68"	1A☒⊗472-72D	13	59 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis

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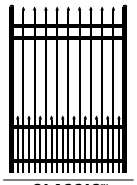
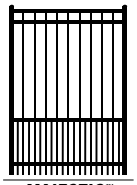
⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™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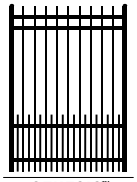
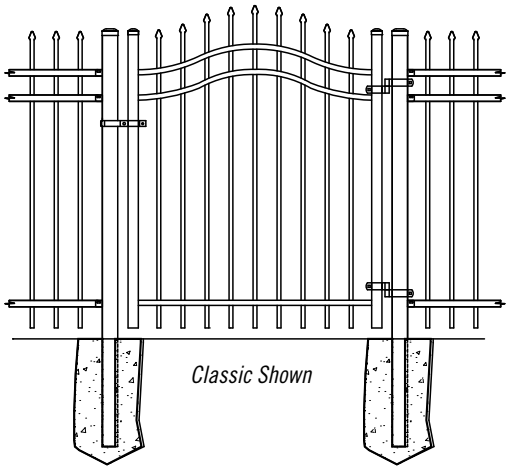

GENESIS™

Effective: 03/01/23

ECHELON PLUS® | SINGLE SWING GATE SPECIFICATIONS

2"sq x .25" wall GATE ENDS | 1" x 2" x .25" wall CHANNEL RAILS | .75"sq x .125" wall PICKETS | 3.5' - 7' NOMINAL OPENINGS

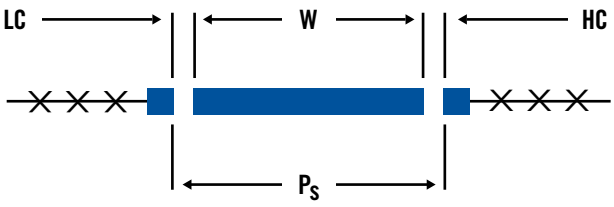
SINGLE SWING
DIMENSIONAL DRAWING



SINGLE SWING
HARDWARE KITS & POST INTERSPACES

		TCSGK TRU-CLOSE HINGE KIT			EGBS25 / EGBS3 BOLT-ON HARDWARE KITS			EGBS25A / EGBS3A AMERISTAR LOCK / BOLT-ON HINGE KIT		
OPENING	LEAF WIDTH*	HC	LC	P_S	HC	LC	P_S	HC	LC	P_S
3.5'	40"	.75"	.75"	41.5"	2"	2"	44"	2"	.625"	42.625"
4'	49.5"	.75"	.75"	51"	2"	2"	53.5"	2"	.625"	52.125"
5'	58.75"	.75"	.75"	60.25"	2"	2"	62.75"	2"	.625"	61.375"
6'	68"	.75"	.75"	69.5"	2"	2"	72"	2"	.625"	70.625"
7'	86.75"	.75"	.75"	88.25"	2"	2"	90.75"	2"	.625"	89.375"

W = width* | **HC** = hinge clearance | **LC** = latch clearance | **P_S** = gate post spacing**
** From outside to outside | ** From inside to inside*



Effective: 03/01/23

ECHELON PLUS® | 3-RAIL SINGLE SWING ARCHED GATES

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3½'	40"	1A☒⊗348-42A	7	42 lbs	⃠
	4'	49.5"	1A☒⊗348-48A	9	48 lbs	⃠
	5'	58.75"	1A☒⊗348-60A	11	55 lbs	⃠
	6'	68"	1A☒⊗348-72A	13	62 lbs	⃠
	7'	86.75"	1A☒⊗348-84A	17	75 lbs	⃠
5' HEIGHT	3½'	40"	1A☒⊗360-42A	7	49 lbs	⃠
	4'	49.5"	1A☒⊗360-48A	9	57 lbs	⃠
	5'	58.75"	1A☒⊗360-60A	11	65 lbs	⃠
	6'	68"	1A☒⊗360-72A	13	72 lbs	⃠
	7'	86.75"	1A☒⊗360-84A	17	88 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

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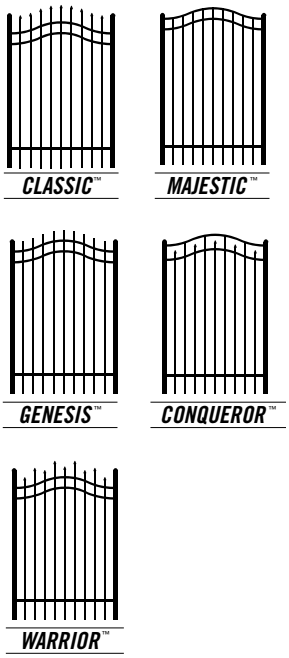

ECHELON PLUS® | 3-RAIL SINGLE SWING ARCHED GATES WITH RINGS

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

	OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
4' HEIGHT	3.5'	40"	1A☒⊗348-42AR	7	44 lbs	⃠
	4'	49.5"	1A☒⊗348-48AR	9	50 lbs	⃠
	5'	58.75"	1A☒⊗348-60AR	11	58 lbs	⃠
	6'	68"	1A☒⊗348-72AR	13	65 lbs	⃠
	7'	86.75"	1A☒⊗348-84AR	17	79 lbs	⃠
5' HEIGHT	3.5'	40"	1A☒⊗360-42AR	7	51 lbs	⃠
	4'	49.5"	1A☒⊗360-48AR	9	59 lbs	⃠
	5'	58.75"	1A☒⊗360-60AR	11	68 lbs	⃠
	6'	68"	1A☒⊗360-72AR	13	75 lbs	⃠
	7'	86.75"	1A☒⊗360-84AR	17	92 lbs	⃠

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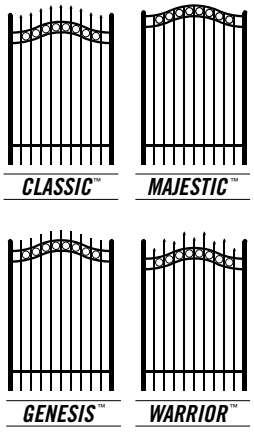


Effective: 03/01/23

ECHELON PLUS® | 4-RAIL SINGLE SWING ARCHED GATES

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

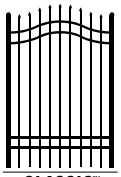
6' HEIGHT

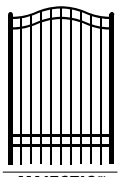
OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½'	40"	1A☒⊗472-42A	7	57 lbs	⃠
4'	49.5"	1A☒⊗472-48A	9	66 lbs	⃠
5'	58.75"	1A☒⊗472-60A	11	74 lbs	⃠
6'	68"	1A☒⊗472-72A	13	83 lbs	⃠
7'	86.75"	1A☒⊗472-84A	17	101 lbs	⃠

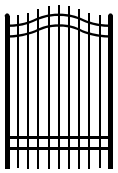
☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior R = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™


MAJESTIC™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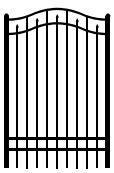
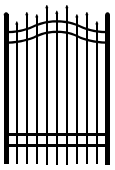

CONQUEROR™


WARRIOR™

ECHELON PLUS® | 4-RAIL SINGLE SWING ARCHED GATES WITH RINGS

STANDARD BOTTOM | GATE HARDWARE NOT INCLUDED

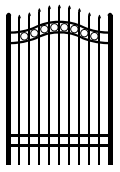
6' HEIGHT

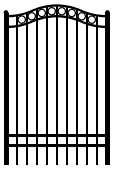
OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½'	40"	1A☒⊗472-42AR	7	59 lbs	⃠
4'	49.5"	1A☒⊗472-48AR	9	68 lbs	⃠
5'	58.75"	1A☒⊗472-60AR	11	77 lbs	⃠
6'	68"	1A☒⊗472-72AR	13	86 lbs	⃠
7'	86.75"	1A☒⊗472-84AR	17	105 lbs	⃠

☒ = ***FENCE STYLES AVAILABLE*** | C = Classic M = Majestic G = Genesis W = Warrior

⊗ = ***COLOR OPTIONS AVAILABLE*** | B = Black N = Bronze W = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.


CLASSIC™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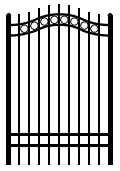
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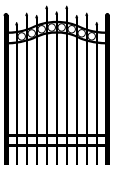

WARRIOR™

ECHELON PLUS® | 2-RAIL SINGLE SWING ARCHED POOL GATES

FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

4' HEIGHT

OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½' POOL	40"	1AM⊗248-42A	7	38 lbs	⃠
4' POOL	49½"	1AM⊗248-48A	9	44 lbs	⃠
5' POOL	58¾"	1AM⊗248-60A	11	50 lbs	⃠
6' POOL	68"	1AM⊗248-72A	13	56 lbs	⃠
7' POOL	86¾"	1AM⊗248-84A	17	68 lbs	⃠

MONARCH™

☒ = ***FENCE STYLES AVAILABLE*** | **M** = Monarch

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

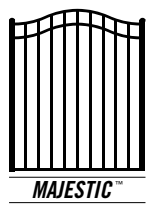
⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

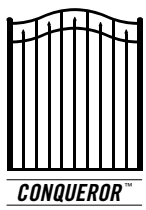
ECHELON PLUS® | 3-RAIL SINGLE SWING ARCHED POOL GATES

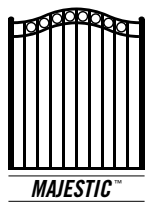
FLUSH BOTTOM | GATE HARDWARE NOT INCLUDED

4½' HEIGHT

OPENING	LEAF WIDTH	ITEM NUMBER	PICKET QTY	WEIGHT	STOCKING
3½' POOL	40"	1A☒⊗354-42A	7	45 lbs	⃠
4' POOL	49½"	1A☒⊗354-48A	9	53 lbs	⃠
5' POOL	58¾"	1A☒⊗354-60A	11	60 lbs	⃠
6' POOL	68"	1A☒⊗354-72A	13	67 lbs	⃠
7' POOL	86¾"	1A☒⊗354-84A	17	81 lbs	⃠
3½' POOL	40"	1A☒⊗354-42AR	7	45 lbs	⃠
4' POOL	49½"	1A☒⊗354-48AR	9	53 lbs	⃠
5' POOL	58¾"	1A☒⊗354-60AR	11	60 lbs	⃠
6' POOL	68"	1A☒⊗354-72AR	13	67 lbs	⃠
7' POOL	86¾"	1A☒⊗354-84AR	17	81 lbs	⃠


MAJESTIC™


CONQUEROR™


MAJESTIC™

☒ = ***FENCE STYLES AVAILABLE*** | **M** = Majestic **R** = Conqueror

⊗ = ***COLOR OPTIONS AVAILABLE*** | **B** = Black **N** = Bronze **W** = White

⃠ = ***NON-STOCKED PRODUCT***
For details, see Ameristar's Sales Policy in the catalog guide.

Effective: 03/01/23