

MATRIX[®]



HIGH SECURITY PERIMETER ENCLOSURE GRID



Experience a safer and more open world

TALLAHASSEE

(850) 942-1003

MOBILE/BALDWIN

(251) 322-2075



MATRIX[®]

UNPARALLELED PROTECTION

Security demands are increasing.
Traditional fencing can't keep up,
but Ameristar's **Matrix Systems** can.

This innovative fence solution expands to accommodate your level of required security. Multiple mesh options allow you to select the degree of delay and site visibility. Engineered for critical infrastructure, this system unites strength with versatility to protect any asset.

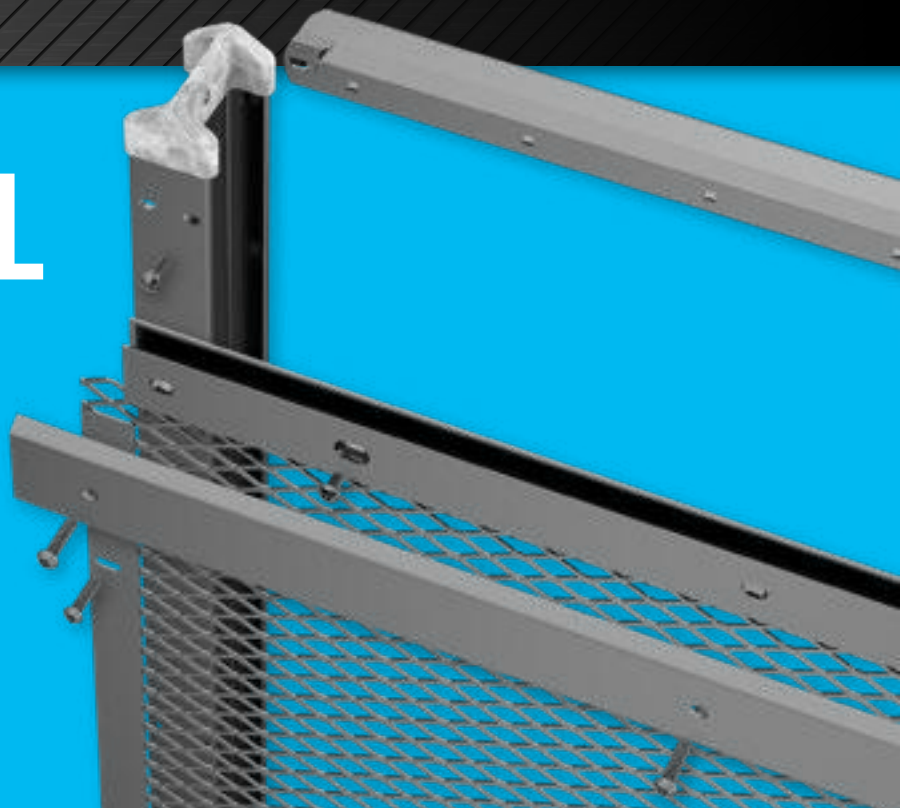


PRIMARY APPLICATIONS:

- Power Utility
- Petrochemical
- Industrial Storage
- Water and Wastewater
- Data Storage
- Sally Ports
- Critical Infrastructure

MESH INFILL SYSTEMS

With an expandable design, Matrix is built to accommodate multiple mesh infill options. Each infill possesses unique characteristics, allowing you to determine the level of visibility, delay and deterrence for your site.

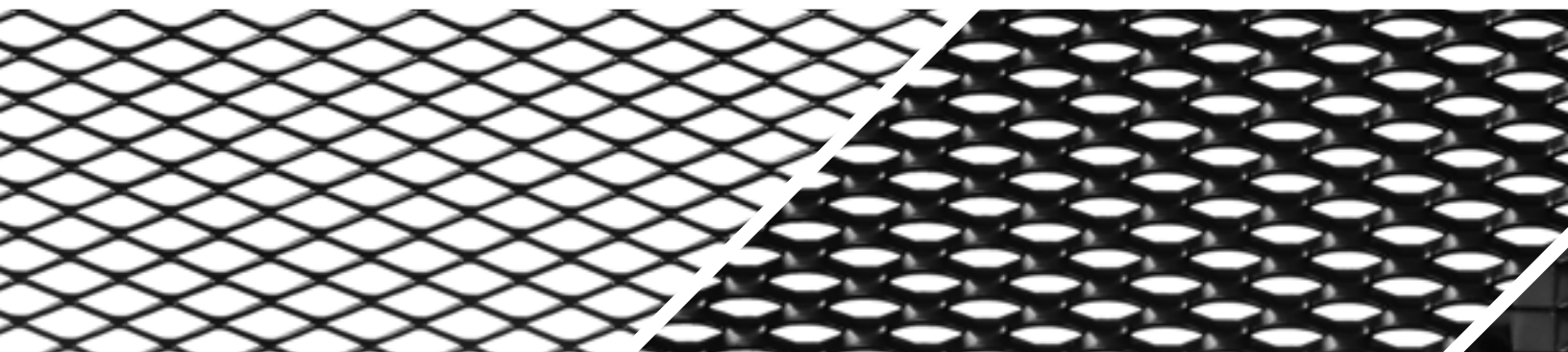


RAILS: 2" x 11ga C-Shaped

INFILL CHANNEL: 3.5" x .75" Aluminum

DIRECT BURY AND PLATED POSTS:

- I-Beam and Tandem I-Beam Posts: 4" x 2.75" x 11ga
- 8" sq x .25 wall



X-Span®

**37%
OPACITY**

.75" x #9F std. option

Expanded metal steel mesh provides modest delay to cut-through threats.

X-Span® Modified

**75%
OPACITY**

.5" x #13R (.188 strand) std. option

Modified Expanded metal steel mesh provides superior delay to cut-through threats as well as ample visual screening.

HEIGHT OPTIONS



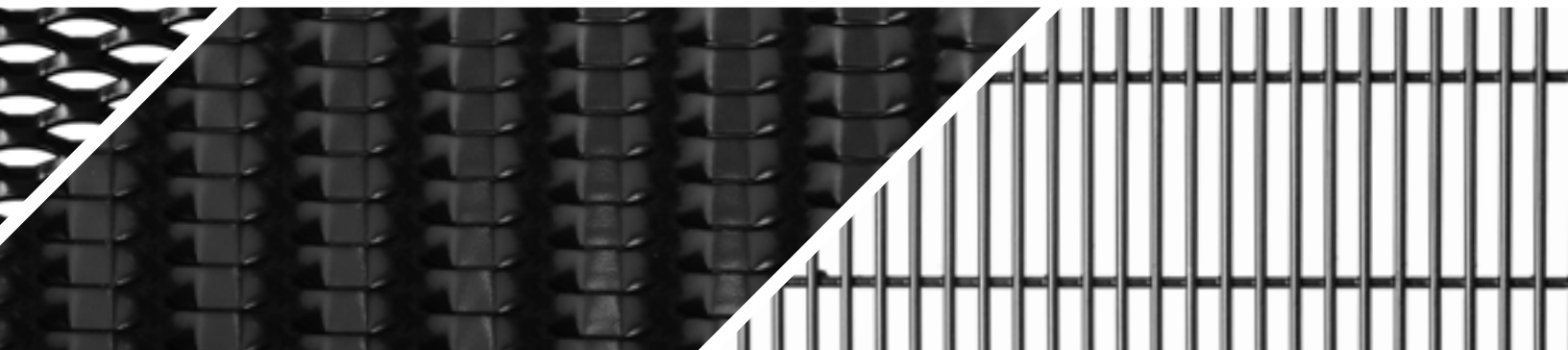
PERMACOAT FINISH OPTIONS

Available in black or gray



BALLISTIC PANEL OPTIONS

Also available (UL 752 - Level 8)



X-Screen®

94%
OPACITY

1.5" x #14 std. option

Louvered steel mesh provides favorable delay to cut-through threats and maximum visual screening.

WireWorks® 8ga

37%
OPACITY

6ga

43%
OPACITY

.5" x 3" x 8ga & 6ga std. option

Welded Wire steel mesh provides ample delay to cut-through threats and modest visual screening.

INFILL + PALE SYSTEM

Matrix Hardened combines X-Span[®] mesh infill grid and Impasse pales to create a heavy-duty security system with increased delay times. Choose from Trident[™], Stronghold[™] or Gauntlet[™].

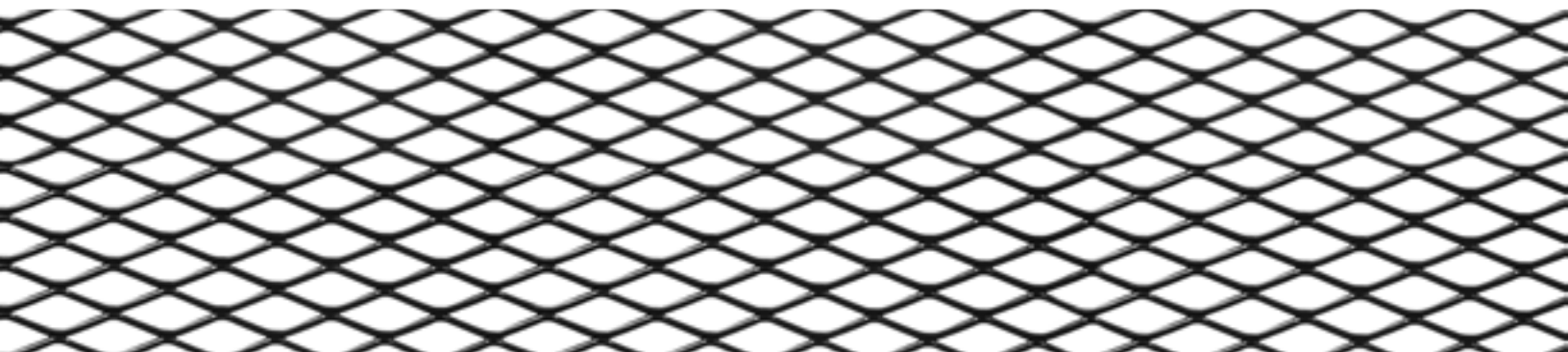


RAILS: 2" x 11ga C-Shaped

PALES: 2.75"w x 14ga

DIRECT BURY AND PLATED POSTS:

- I-Beam and Tandem I-Beam Posts: 4" x 2.75" x 11ga
- 8" sq x .25 wall



X-Span[®] Mesh

.75" x #9F std. option

Expanded metal steel mesh provides modest delay to cut-through threats.

PALE SPACING OPTIONS

STANDARD SPACING:	3.25"	62% OPACITY
ANTI-SCALE SPACING:	1.5"	81% OPACITY

HEIGHT OPTIONS

16'-10" height also available (not shown)

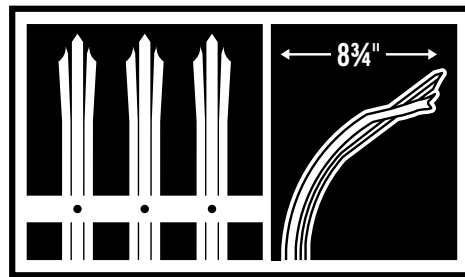
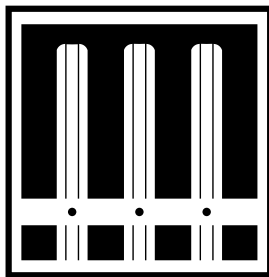
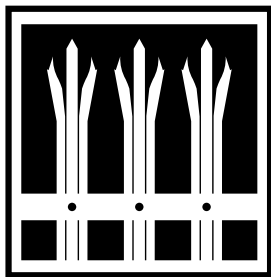
9'-9"

11'-9"

13'-10"

PERMACOAT FINISH OPTIONS

Available in black or gray



Trident™

Trident pales terminate in a menacing triple-pointed splayed spear tip. The intimidating look of the Trident corrugated pale is a visual deterrent to any who would dare to intrude.

Stronghold™

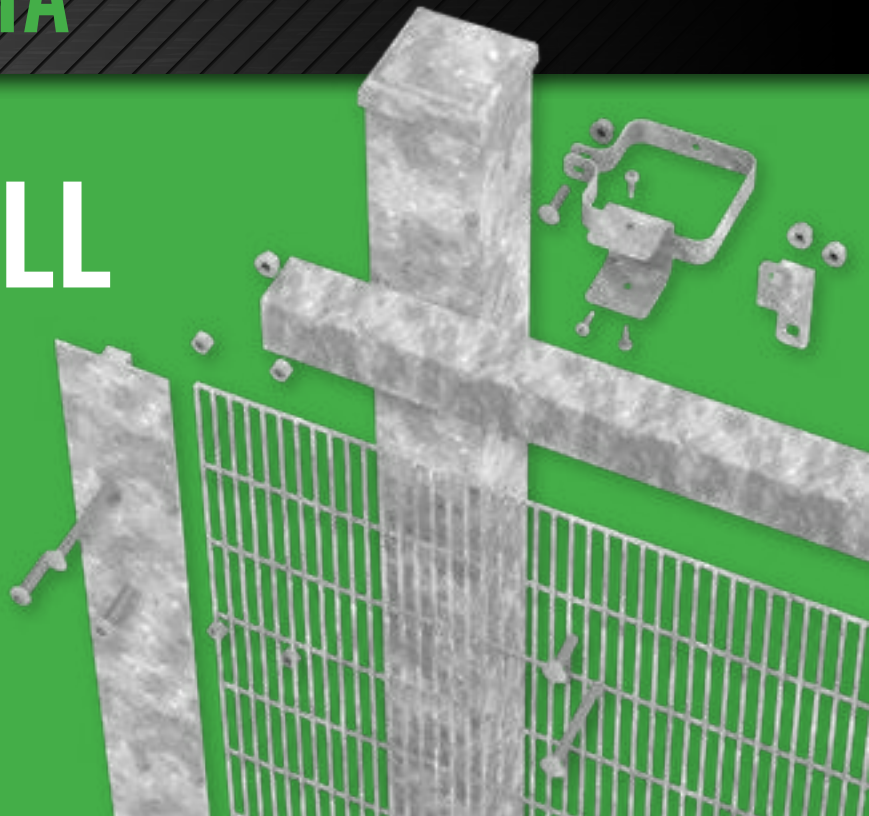
The blunt, slightly rounded tip of Stronghold offers strength when necessary, while providing safety and security to the public. Features the same structural configurations of its high-security counterparts.

Gauntlet™

The Gauntlet design rises above the topmost rail with an outward curve and terminates with a triple-pointed splayed spear tip. The outward curved pales discourage attempts to gain access by would-be intruders.

CURTAIN WALL SYSTEM

Galvanized to protect from the elements, the Matrix Alpha fence system is a baseline for perimeter security. Alpha's curtain wall architecture allows for variable post spacing, yielding reduced installation times.



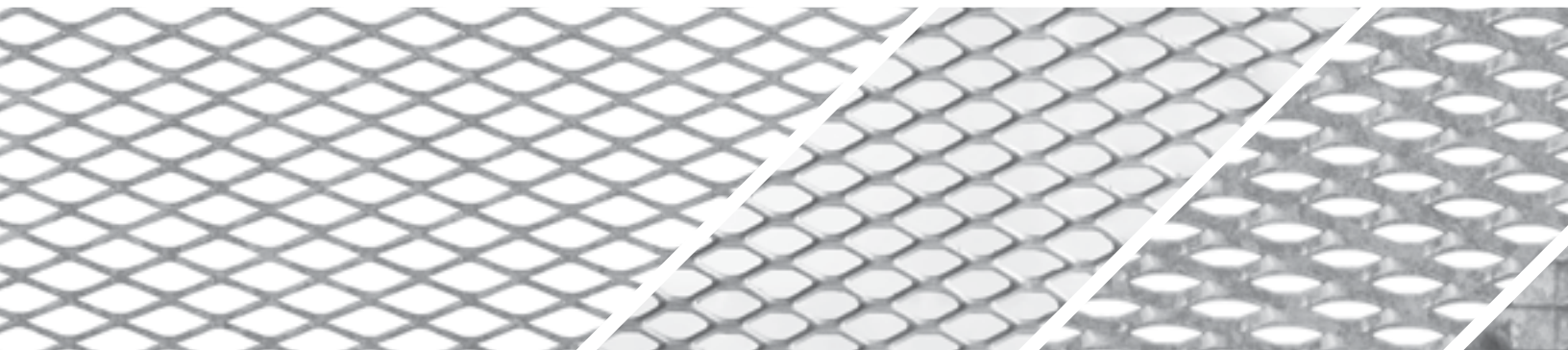
RAILS: 2" x 16ga

INFILL COVER: 3.5" x .50" Aluminum

RAIL TO INFILL BRACKET: 1" x .125"

DIRECT BURY AND PLATED POSTS:

- 3" x 6" x .083" wall and .1875" wall
- 6" sq x .1875" wall



X-Span[®] HDG only

37%
OPACITY

.75" x #9F std. option

Expanded metal steel mesh provides modest delay to cut-through threats.

X-Span[®] Ultra

43%
OPACITY

Modified

75%
OPACITY

.5" x #13R Ultra & Modified (.188 strand)

Expanded metal steel mesh provides superior delay to cut-through threats as well as ample visual screening.

HEIGHT OPTIONS

7' through 15' height available (6" increments)

8'-0"

10'-0"

12'-0"

PERMACOAT FINISH OPTIONS

Available in black or gray



GALVANIZED FINISH OPTION

HDG (Hot-Dip Galvanized)



X-Screen[®] HDG only

94%
OPACITY

1.5" x #14 std. option

Louvered steel mesh provides favorable delay to cut-through threats and maximum visual screening.

WireWorks[®] 8ga

37%
OPACITY

6ga

43%
OPACITY

.5" x 3" x 8ga & 6ga std. option

Welded Wire steel mesh provides ample delay to cut-through threats and modest visual screening.



PERMACOAT[®]

- ✓ MATRIX
- ✓ MATRIX HARDENED
- ✓ MATRIX ALPHA

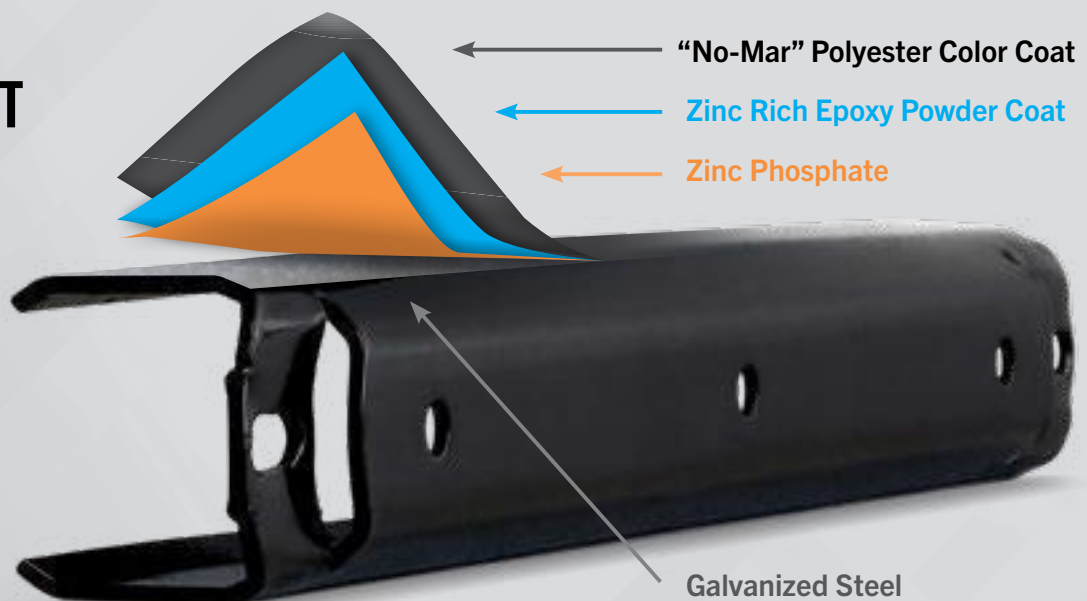
The electrostatic application in the PermaCoat[®] powder coating system results in coated surfaces with unmatched performance. The base coat of epoxy powder far surpasses the corrosion resisting abilities of painted surfaces. The “no-mar” polyester powder top coat reduces scratches and burnishing marks normally encountered during shipping and installation.

COLOR OPTIONS



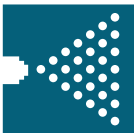




Available in black or gray





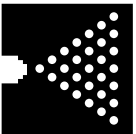

PERMACOAT LAYERS OF DEFENSE



PRE-TREATMENT

1  ALKALINE WASH <i>Cleans metal</i>	2  FIXIDINE RINSE <i>Rinses excess alkali</i>	3  PHOSPHATE <i>Corrosion resistant layer</i>	4  CLEAR WATER RINSE <i>Prep wash</i>
5  NON-CHROMATE SEAL <i>Moisture barrier</i>	6  CLEAR WATER RINSE <i>Final wash</i>	7  DRYING OVEN <i>Eliminates all moisture</i>	

DOUBLE-COATING

8  EPOXY POWDER COAT <i>Electrostatically applied</i>	9  EPOXY GEL OVEN <i>Gelled and cured</i>	10  POLYESTER POWDER <i>Electrostatically applied</i>	11  FINISH CURING OVEN <i>Seals finish</i>
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CORROSION TESTING

Corrosion occurs more easily without proper protection and process, which is why Ameristar's coatings continue to outperform the competition as tested to ASTM B117 standards.



PERMACOAT PROCESS

Phosphate +
Epoxy Powder Coat +
Polyester Powder Coat

GALVANIZED

✓ MATRIX ALPHA

For over a century galvanized finishes have been the baseline for protecting industrial fences from the elements. Since Ameristar's inception, chain link fence framework has been a staple within our daily manufacturing production.

We apply our manufacturing expertise related to framework to providing galvanized engineered profiles of the highest quality. Ameristar quality is defined by our adherence to industry standards and the proven performance of our durable galvanized finishes.

GALVANIZED COATING

Continuous hot-dip galvanized coating



ASTM A123

Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

ASTM A653

Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process

ENGINEERED SOLUTIONS

Designed as a layered solution, Matrix systems exceed expectations and meet strict security standards.



**CONFORMS TO IEEE
GROUNDING STANDARDS**



**MEETS ASTM F2781
FORCED ENTRY STANDARD**



SMART FRAMEWORK

Serving as a raceway for wires and cabling, the Matrix framework creates a smart perimeter platform. The design eliminates the need for costly trenching and boring, saving money without compromising security.

Available on Matrix and Matrix Hardened

The framework houses:

- Communication and video cables
- Intrusion detection/fiber optic cables
- Anti-ram cabling
- Access control wiring
- Conduits



**MEETS ASCE 7-10
EXPOSURE C WIND LOAD**



**EXPANDABLE TO MEET
ASTM F2656 CRASH
BARRIER STANDARD**

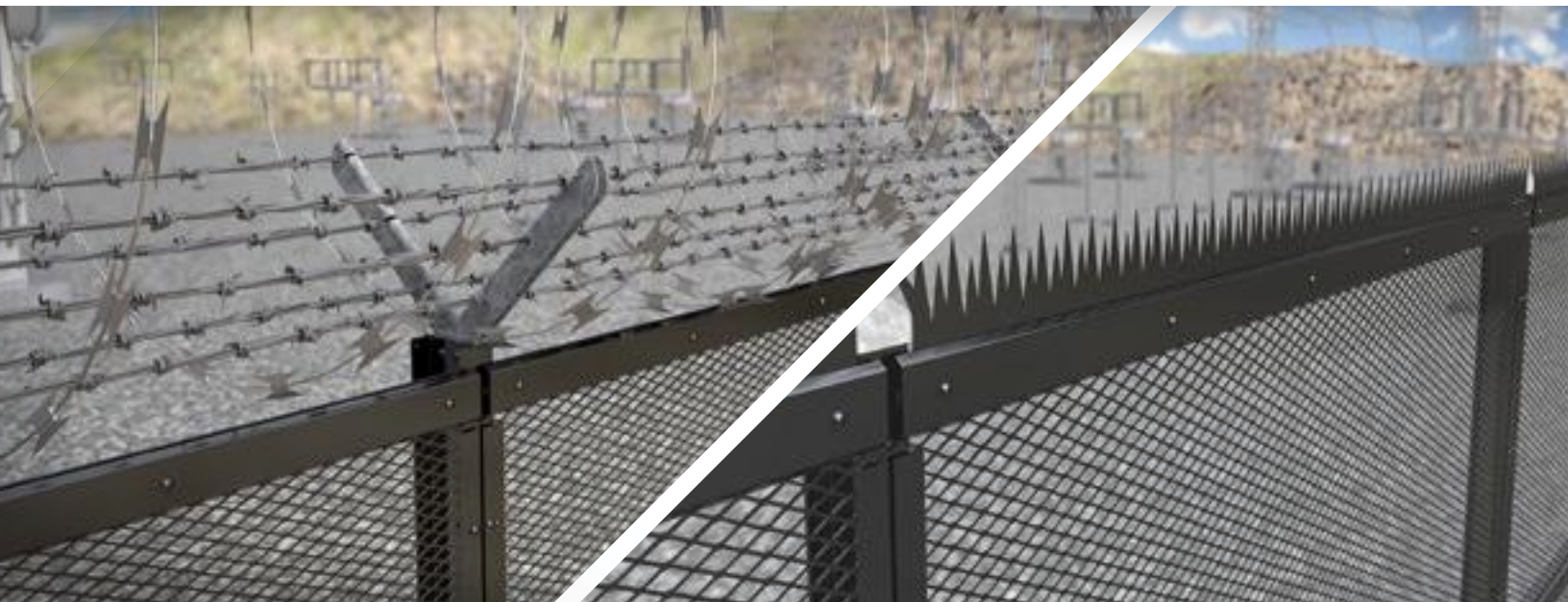


SYSTEM ENHANCEMENTS

Options to improve deterrence and increase delay



- **ANIMAL MITIGATION SHIELD**
- **BARBED-WIRE ARMS**
- **TECHNOLOGY POSTS**
- **SPIKE DETERRENT STRIPS**
- **ANTI-BURROW** (not shown)
- **BALLISTIC PANELS** (UL 752 - Level 8)





GATES

STRENGTH. DURABILITY.
PROVEN FUNCTIONALITY.

Egress and ingress requirements are unique to each application. Managing traffic flow and usage demands are of the utmost importance, which is why Matrix gate systems are manufactured in a variety of types built to balance function and security.

Ameristar's Exodus pedestrian egress gates, swing gates and sliding gates perfectly match the perimeter to create a seamless design while exuding a commanding presence of security built to unite perimeter and entry.



Why Choose Ameristar?

KNOWLEDGE AND EXPERIENCE

For over 30 years we've delivered aesthetically pleasing, high-quality and innovative fencing products with superior design strength and easy installation.

PROVEN CAPABILITIES

Our integrated in-house processes, extensive raw materials and finished goods inventory translate into quality, on-time delivery.

INDUSTRY LEADERSHIP

We continually raise the bar in manufacturing customer-focused solutions. Our high standards produce premium products that go beyond merely meeting minimum industry standards.



5159 Woodlane Circle
Tallahassee, FL 32303
www.BTFencing.com

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