HIGH SECURITY PERIMETER ENCLOSURE GRID

FENCE PRODUCTS

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Experience a safer and more open world

ASSA ABLOY
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.

UNPARALLELED PROTECTION

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

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.

**X-Span®**
- 0.75" x #9F std. option
  - Expanded metal steel mesh provides modest delay to cut-through threats.

**X-Span® Modified**
- 0.5" x #13R (.188 strand) std. option
  - Modified Expanded metal steel mesh provides superior delay to cut-through threats as well as ample visual screening.

**X-Screen®**
- 1.5" x #14 std. option
  - Louvered steel mesh provides favorable delay to cut-through threats and maximum visual screening.

**WireWorks® 8ga**
- 0.5" x 3" x 8ga & 6ga std. option
  - Welded Wire steel mesh provides ample delay to cut-through threats and modest visual screening.

**DIRECT BURY AND PLATED POSTS:**
- I-Beam and Tandem I-Beam Posts: 4" x 2.75" x 11ga
- 8" sq x .25 wall

**RAILS:**
- 2" x 11ga C-Shaped

**INFILL CHANNEL:**
- 3.5" x .75" Aluminum

**COLOR OPTIONS**
- Available in black or gray

**HEIGHT OPTIONS**
- 8'-8"
- 10'-8"
- 12'-9"
- 15'-9"
- 20'-10"

**OPACITY**
- 37% for X-Span®
- 73% for X-Span® Modified
- 94% for X-Screen®
- 36% for WireWorks® 8ga
- 43% for WireWorks® 6ga

**OPACITY**
- 73% for X-Span® Modified
- 43% for WireWorks® 6ga

**OPACITY**
- 94% for X-Screen®
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™.

**INFILL + PALE SYSTEM**

**X-Span® Mesh**

.75” x #9F std. option

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

**RAILS:** 2” x 11ga C-Shaped

**PALES:** 2.75”w x 14ga

**PALE SPACING OPTIONS**

<table>
<thead>
<tr>
<th>SPACING</th>
<th>OPACITY</th>
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</thead>
<tbody>
<tr>
<td>STANDARD SPACING:</td>
<td>62%</td>
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<tr>
<td>3.25”</td>
<td></td>
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<tr>
<td>ANTI-SCALE SPACING:</td>
<td>81%</td>
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<tr>
<td>1.5”</td>
<td></td>
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</tbody>
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**DIRECT BURY AND PLATED POSTS:**

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

**HEIGHT OPTIONS**

16’-10” height also available (not shown)

**COLOR OPTIONS**

Available in black or gray

**HARDENED**

**INFILL + PALE SYSTEM**

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.
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.

**Curtain Wall System**

- **Rails:** 2” x 16ga
- **Infill Cover:** 3.5” x .50” Aluminum
- **Rail to Infill Bracket:** 1” x .125”
- **Direct Bury and Plated Posts:**
  - 4” sq x 11ga
  - 3” x 6” x 14ga and .1875” wall
  - 6” sq x .1875” wall

**GALVANIZED FINISH**

**X-Span®**
- .75” x #9F std. option
- Expanded metal steel mesh provides delay to cut-through threats.

**X-Span® Ultra**
- .5” x #13R Ultra & Modified (.188 strand)
- Expanded metal steel mesh provides superior delay to cut-through threats as well as ample visual screening.

**X-Span® Modified**
- 1.5” x #14 std. option
- Louvered steel mesh provides favorable delay to cut-through threats and maximum visual screening.

**WireWorks®**
- .5” x 3” x 8ga & 6ga std. option
- Welded Wire steel mesh provides ample delay to cut-through threats and modest visual screening.

**X-Screen®**
- .75” x #9F std. option
- Expanded metal steel mesh provides adequate delay to cut-through threats.

**X-Span® Ultra**
- .5” x #13R Ultra & Modified (.188 strand)
- Expanded metal steel mesh provides superior delay to cut-through threats as well as ample visual screening.
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.

**PERMACOAT®**
- ✔ MATRIX
- ✔ MATRIX HARDENED

**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.

**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

**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

**COLOR OPTIONS**
Available in black or gray

**PERMACOAT LAYERS OF DEFENSE**
- “No-Mar” Polyester Color Coat
- Zinc Rich Epoxy Powder Coat
- Zinc Phosphate
- Galvanized Steel

**PRE-TREATMENT**
1. **ALKALINE WASH**
   Clean metal
2. **FIXATIVE RINSE**
   Rinse excess alkali
3. **PHOSPHATE SEAL**
   Corrosion resistant alkali
4. **CLEAR WATER RINSE**
   Prep wash
5. **NON-CROMATE SEAL**
   Moisture barrier
6. **CLEAR WATER RINSE**
   Final wash
7. **DRYING OVEN**
   Eliminates all moisture

**DOUBLE-COATING**
8. **EPOXY POWDER COAT**
   Electrostatically applied
9. **EPOXY GEL OVEN**
   Gelled and cured
10. **POLYESTER POWDER**
    Electrostatically applied
11. **FINISH CURING OVEN**
    Seals finish

**3,500 HOURS**
Continuous hot-dip galvanized coating
ENGINEERED SOLUTIONS

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

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

CONFORMS TO IEEE GROUNDING STANDARDS
MEETS ASTM F2781 FORCED ENTRY STANDARD
MEETS ASCE 7-10 EXPOSURE C WIND LOAD
EXPANDABLE TO MEET ASTM F2656 CRASH BARRIER STANDARD
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.