

# STALWART® PRODUCTS

Anti-Ram Vehicle Barriers



FENCE PRODUCTS

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# STALWART® PRODUCTS

## ANTI-RAM VEHICLE BARRIERS

### STALWART®

Post & Rail Anti-Ram Crash Barrier

### STALWART PLUS®

Anti-Ram Barrier + Architectural Mesh

### STALWART II®

Anti-Ram Barrier + Ornamental Fence

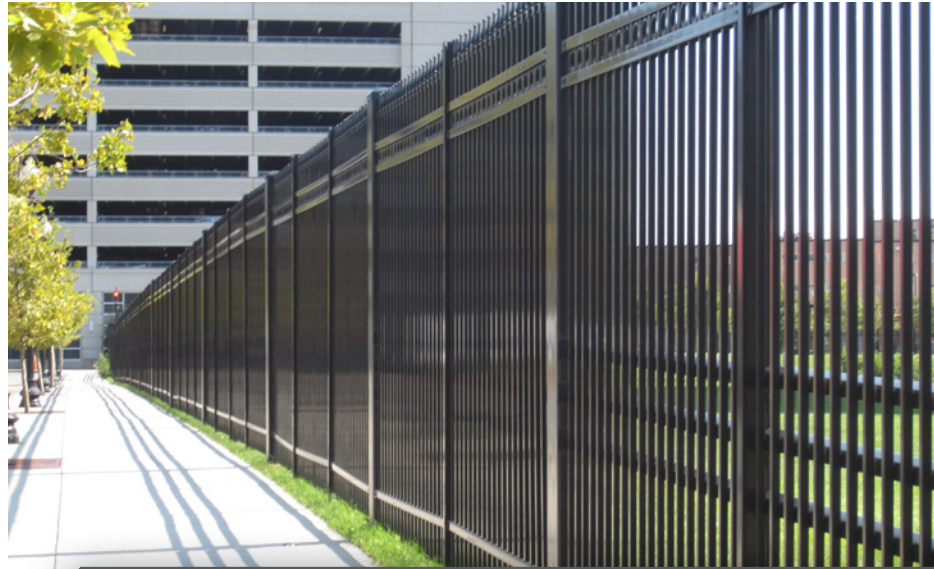
### STALWART IS®

Anti-Ram Barrier + Security Fence

### STALWART OPTIMA®

Fiber Rope Anti-Ram Barrier





## STALWART SYSTEMS PRIMARY APPLICATIONS

- Government Facilities
- State Facilities
- Military Sites
- Petroleum & Chemical Facilities
- Stadiums & Event Centers
- Schools & Universities
- Hospitals
- Parks & Recreation
- Power Plants & Substations
- Water Treatment & Storage
- Ports of Entry
- Airports
- Railways
- State Facilities
- Data Centers

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



Ameristar products have the opportunity to earn LEED points.





# SYSTEM INTEGRATION

The Stalwart framework is a raceway for wiring, conduits, and/or security cabling required around the perimeter of a project. This integrated design eliminates the need for costly trenching and boring, becoming a value-added solution for perimeter security upgrades.

Use the Stalwart framework as a platform for these security elements:

- Communication & Video Cables
- Access Control Wiring
- Intrusion Detection / Fiber Optic Cables
- Conduits
- Anti-Ram Cabling



*(Inside of rail shown above / view from protected side)*



## CRASH RATINGS

Stalwart offers multiple anti-ram ratings. Each installation can be designed with the most appropriate stand-off distance from the assets.

**M50 M40 M30**

**PU60 PU50 PU30**

**K12 K8 K4**



## SAFETY ACT CERTIFIED

Developed by the US Department of Homeland Security, the SAFETY Act established a system of risk and litigation management for claims arising out of, relating to, or resulting from an act of terrorism.





# STALWART®

## Post & Rail Anti-Ram Crash Barrier

The Stalwart post and rail anti-ram barrier is the most economical passive perimeter barrier on the market. The Stalwart standalone design, when installed adjacent to an existing perimeter fence, transforms the perimeter into a secure anti-crash perimeter system.

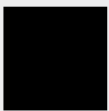
**RAILS | 2" x 2" x 11 GA. I-BEAM POSTS | 3" x 2.75" x 12 GA.**

### CRASH RATINGS

M50	M40	M30
PU60	PU50	
K12	K8	K4

### COLORS

*Refer to color sample for actual color*



BLACK



BRONZE



SAND



WHITE

### FABRICATION & DESIGN

The standalone post and rail design of the Stalwart system is the simplest anti-ram design on the market. The Stalwart system was designed to conceal its anti-ram components and provide cable support preventing cable stretch that occurs with non-supported cables. The Stalwart framework is manufactured with high-tensile steel and is pre-galvanized inside and out for superior corrosion protection.







# STALWART PLUS®

## Anti-Ram Barrier + Architectural Mesh

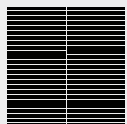
Stalwart Plus combines the design components of an anti-ram barrier with the industrial appearance of architectural mesh. Diverse mesh options are available, providing varied levels of security with anti-cut and anti-climb properties.

**RAILS | 2" x 2" x 11 GA. I-BEAM POSTS | 3" x 2.75" x 12 GA.**

### CRASH RATINGS

M50	M40	M30
PU60	PU50	
K8	K4	

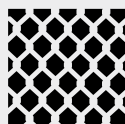
### STYLE OPTIONS



**WIREWORKS™**  
Welded Wire



**X-SPAN™**  
Expanded Metal



**UPLINK™**  
Chain Link

### COLORS

*Refer to color sample for actual color*



**BLACK**



**BRONZE**



**SAND**



**WHITE**







# STALWART II®

## Anti-Ram Barrier + Ornamental Fence

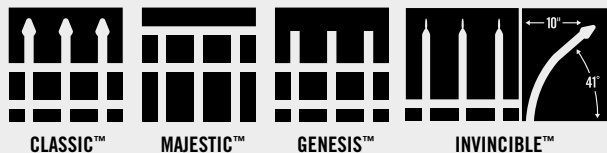
Stalwart II integrates the design features of a traditional ornamental steel fence with the resilience of the Stalwart anti-ram barrier. The ornamental picket design blends into its surroundings, not drawing attention to itself, but still maintaining the requirements of an anti-ram barrier.

**RAILS | 2" x 2" x 11 GA. I-BEAM POSTS | 3" x 2.75" x 12 GA.**

### CRASH RATINGS

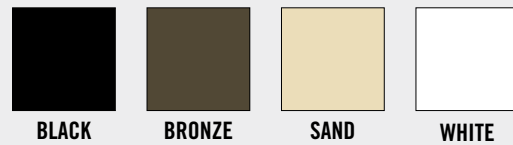
M50	M40	M30
PU60	PU50	PU30
K12	K8	K4

### STYLE OPTIONS



### COLORS

Refer to color sample for actual color

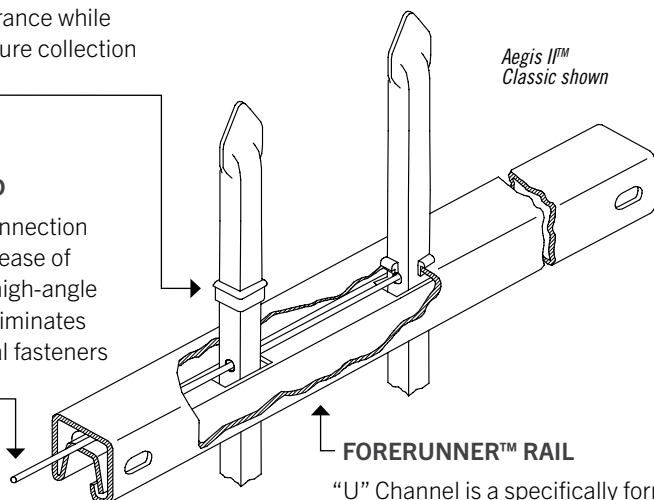


#### GROMMET

Aesthetic appearance while preventing moisture collection

#### INTERNAL RETAINING ROD

Variable pitch connection system provides ease of installation and high-angle biasability and eliminates unsightly external fasteners

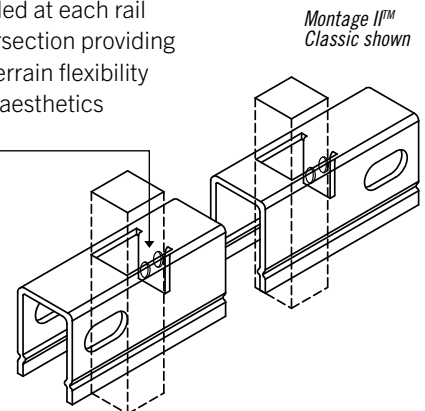


#### FORERUNNER™ RAIL

"U" Channel is a specifically formed, high-strength architectural shape

#### PICKETS

Each picket is precisely welded at each rail intersection providing all-terrain flexibility and aesthetics







# STALWART IS<sup>®</sup>

## Anti-Ram Barrier + Security Fence

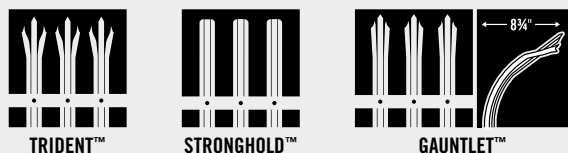
Stalwart IS unites the strongest security fence available with the most widely used anti-ram perimeter barrier. The appearance of Stalwart IS is a great visual deterrent that delivers strength and fortitude for keeping any assailant from easily breaching the perimeter.

### CRASH RATINGS

M50	M40	M30
PU60	PU50	
K12	K8	K4

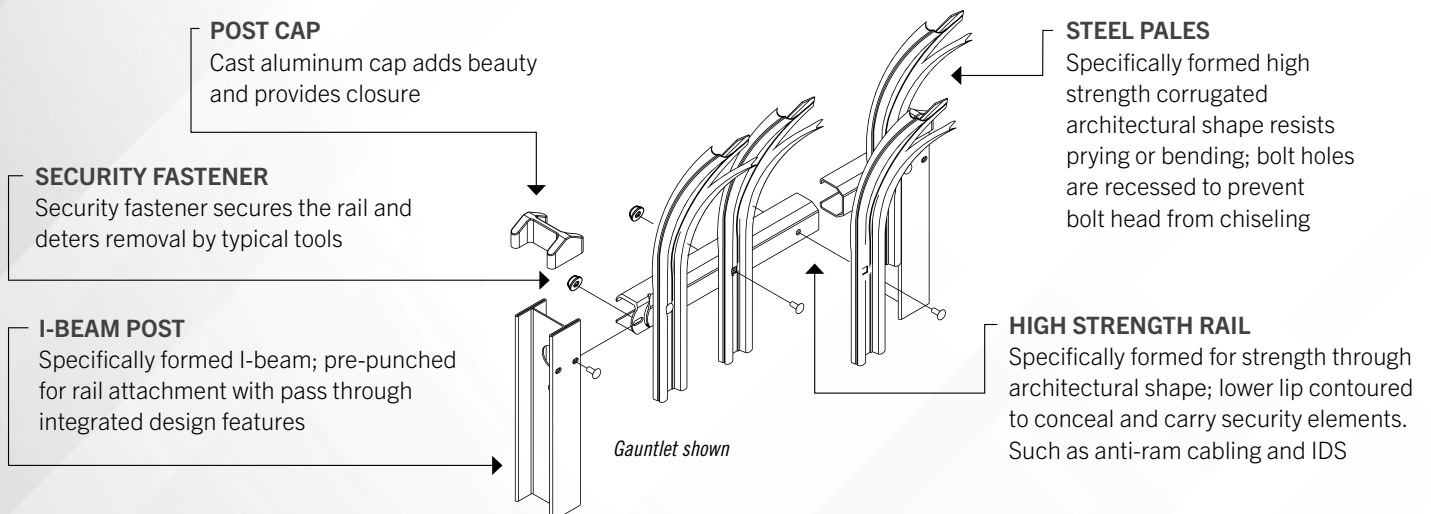
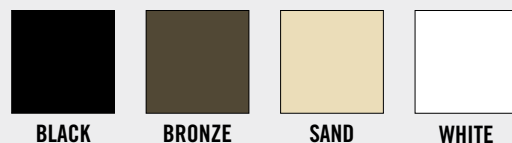
**RAILS** | 2" x 2" x 11 GA. **PALES** | 2.75" x 14 GA. **I-BEAM POSTS** | 3" x 2.75" x 12 GA.

### STYLE OPTIONS



### COLORS

*Refer to color sample for actual color*







# STALWART OPTIMA®

## Fiber Rope Anti-Ram Crash Barrier

Stalwart Optima Fiber Rope System redefines and sets the standard in vehicle crash protection for the 21st century. The inherently flexible and innovative design allows for multiple changes of direction with run lengths from 16' to 1,500'. A shallow footer design and simplified installation round out the innovations making Stalwart Optima the most cost-effective, economical, crash tested barrier system on the market today.

### CRASH RATINGS

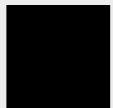
M50

M30

**RAILS | 11" x 2.75" POSTS | 8" Diameter / 15" Set Depth**

*Minimum runs of 16' and greater*

### COLORS



**BLACK**

*Refer to color  
sample for  
actual color*

## INNOVATIVE BY DESIGN

- Fiber Rope Technology
- 16 feet to continuous runs
- Simple innovative design
- Directional change friendly
- Faster Installation / Reduction in Labor
- ASTM F2656 tested to M30/P1 & M50/P2
- Unmatched cost effectiveness
- Less costly repairs in the event of an impact





# CORROSION TESTING

Corrosion occurs more easily without the proper preparation and protection, which is why Ameristar has put our fence products to the test based on **ASTM B117** standards. The results speak for themselves.

## CORROSION-PROCESS



**PAINTED STEEL**



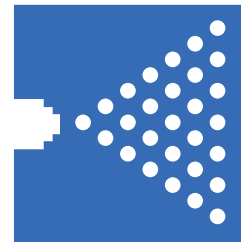
**PRIMED &  
PAINTED STEEL**

## PERMACOAT™

**THE INDUSTRY STANDARD SINCE 1992**

In our unique PermaCoat process, our pre-galvanized steel base undergoes an 11-stage cleansing and preparation process. PermaCoat's corrosion resistance exceeds that of painted surfaces with a "no-mar" polyester powder top coat. This dual coating not only withstands weathering but also reduces scratch and burnishing marks often seen during shipping.

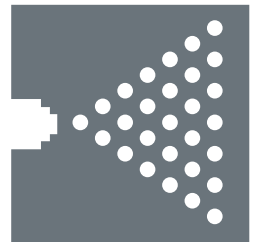
## PRE-TREATMENT



### **ALKALINE WASH**

Cleans metal for proper adhesion of zinc phosphate

1



### **FIXIDINE RINSE**

Rinses excess alkaline prior to zinc phosphate application

2



*Stalwart is backed by over 30 years of excellence in the fencing industry.*







### SINGLE COAT PROCESS

Iron Phosphate +  
Polyester Powder Coat



### SINGLE COAT PROCESS

Phosphate +  
Polyester Powder Coat

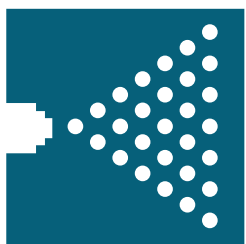


### PERMACOAT PROCESS

Phosphate +  
Epoxy Powder Coat +  
Polyester Powder Coat



After these **7 stages**, the steel surface will be completely prepped for the **next 4 coating stages** by **removing everything** that **inhibits** proper adhesion. →



#### PHOSPHATE

Corrosion resistant layer that  
assists in bonding powder coating

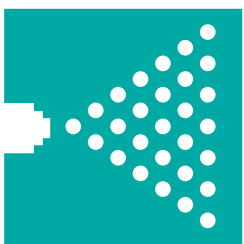
3



#### CLEAR WATER RINSE

A bit of clean H<sub>2</sub>O to prep  
for the next phase

4



#### NON-CHROMATE SEAL

Barrier to prevent moisture  
from reaching base metal

5



#### CLEAR WATER RINSE

Final wash in H<sub>2</sub>O to remove any  
excess debris or particles

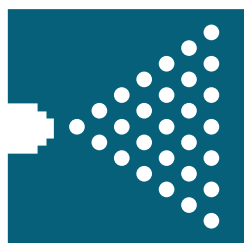
6



#### DRYING OVEN

Eliminates all moisture prior  
to double coating

7



#### EPOXY POWDER COAT

Epoxy powder is  
electrostatically applied

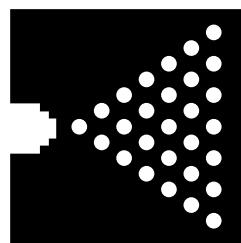
8



#### EPOXY GEL OVEN

Powder is gelled & cured  
to finish coat

9



#### POLYESTER POWDER

TGIC powder is  
electro-statically applied

10



#### FINISH CURING OVEN

Seals finish for years of  
maintenance-free use

11

DOUBLE COATING





# Why Choose Ameristar?

## KNOWLEDGE AND EXPERIENCE

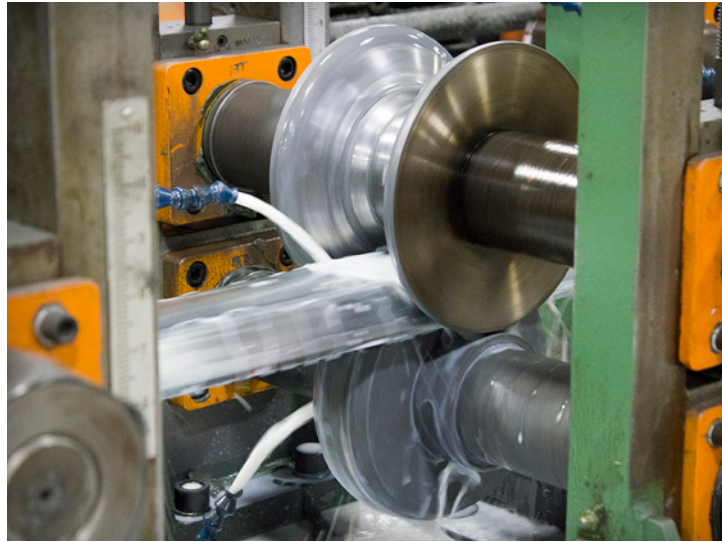
For over 40 years, we've delivered aesthetically pleasing, high-quality and innovative fencing products with superior design strength and easy installation.

## 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.



Scan to learn  
more about  
Stalwart®



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