

HIGH SECURITY

Fences, Barriers & Obstacle Systems

32 30 00.11/AME
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Made In
America



Detect

IMPASSE®

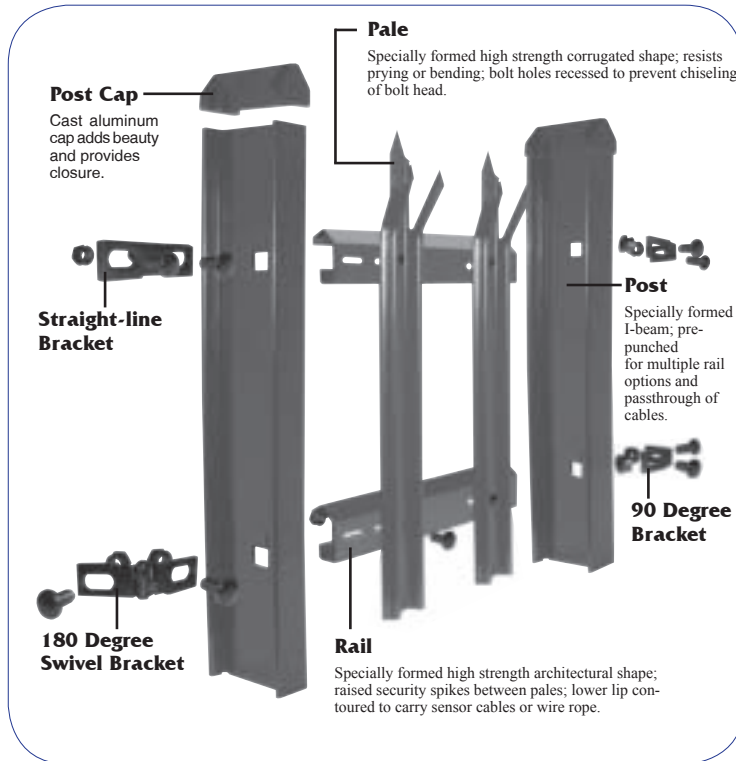
Delay

Deter

Ornamental Pale Security Fence

Deny

Traditional security fences of chain-link or wire mesh and barbed razor tape are no longer enough to meet today's increased security demands. They do not delay serious attacks or intrusion attempts for more than a few seconds. Ameristar's (Patent Pending) Impasse Security Fence offers the resistive strength of heavy-duty steel spears secured vertically to a framework of specially formed steel rails and I-beam posts. The stylish design of the Impasse, combined with its strength and security, provides a successful first line of defense. The structural configuration of the Impasse system not only delays aggressive attacks, but also allows for the seamless integration of additional security features such as anti-ram cables, sensors and alarm systems.



Standard security features of the Impasse® fence include the unique roll-formed Impasse® I-beam which acts as a strong barrier to support the entire fence system. The mounting bracket, a solid steel flat bar, fits through slotted holes pre-punched into the post. Heavy stainless steel tamperproof nuts and bolts attach adjacent rails to either end of the mounting bracket, ensuring a solid and secure connection. Tamperproof carriage bolts fit snugly into the recessed depression on the face of each pale, deterring attempts to pry or chisel the bolt head.

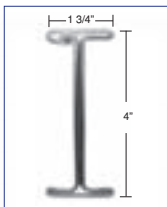


Break-Away Hex Nut

Stainless steel security nut prevents tampering or removal by normal tools.

The Impasse® Pale (picket) is designed with a special corrugated shape to ensure greater resistance to bending loads, particularly with attempts at pale separation.

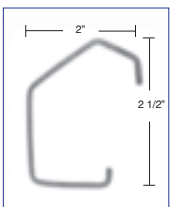
Impasse® I-Beam



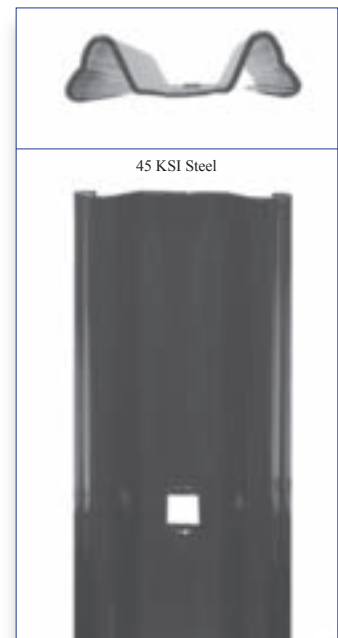
Structural Parameters	Impasse® I-Beam	Std RSJ H-Post	Square Post	Round Post
Architectural Profile of Post				
Bending Strength (lb/in)	93,700	68,875	36,950 54,520	24,400 43,900

NOTE: Materials roll-formed to achieve a double wall effective thickness of 0.200"

Impasse® Rail



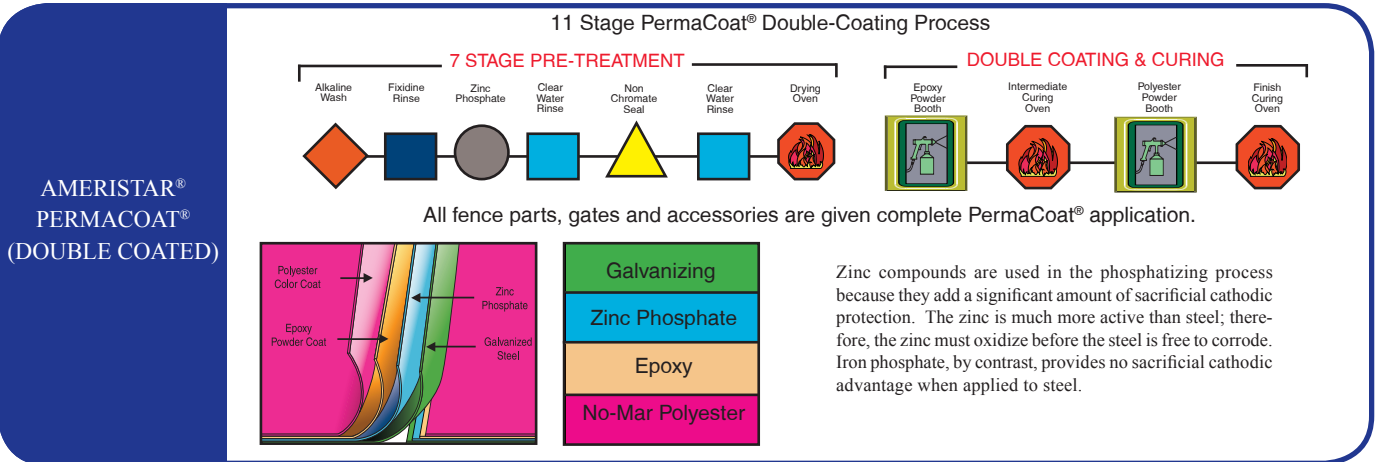
Structural Parameters	Impasse® Rail	Std RSA Rail	U-Channel Rail	Square Rail	Round Rail
Architectural Profile of Rail					
Design Load (Vert)					
P_{vd} 6' Span	425	338	178	211	191
P_{vd} 8' Span	319	253	134	158	143



DEFINING FEATURES

SUPERIOR PERMACOAT® PROCESS

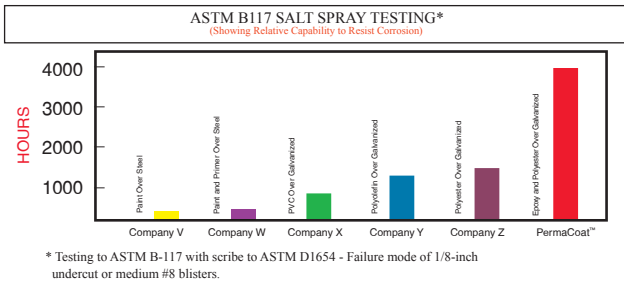
Impasse® High Security Fences, Aegis II® Industrial Ornamental Steel Fences, Aegis Plus® Commercial Ornamental Steel Fences, and PermaCoat® Industrial and Commercial Color Chain Link Framework are all protected with Ameristar's unique PermaCoat double coating process. The steel base material has a hot-dip galvanized coating, specially developed for subsequent application of powder coating. The galvanized substrate is subjected to the PermaCoat® process, a complete thermal stratification (multi-stage, high-temperature, multi-layer) electrostatic powder application system of both epoxy and polyester. The PermaCoat® powder coating system results in finished 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 dramatically increases weathering resistance (color and gloss retention) and reduces scratches and burnishing marks normally encountered during shipping.



AMERISTAR®
PERMACOAT®
(DOUBLE COATED)

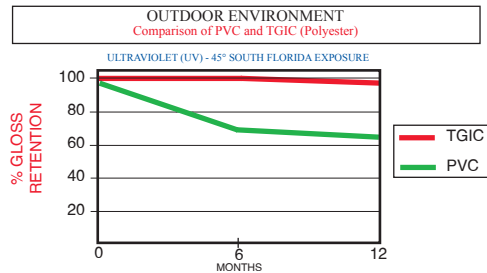
SUPERIOR CORROSION RESISTANCE

PermaCoat® significantly exceeds paint, polyolefin, PVC, and one coat polyester finishes in its ability to resist corrosion. ASTM B117 test results below show the dramatic difference.



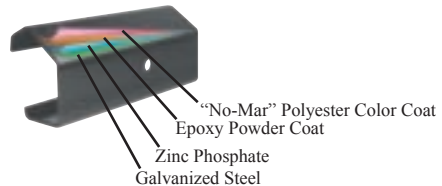
SUPERIOR UV RESISTANCE

PermaCoat® is far superior to PVC in resistance to the harmful effects of UV radiation, as shown below using South Florida exposure tests.



COMPONENT SIZES

System	Pales	Rails	Posts
Impasse® High Security	3/4" x 2-3/4"	2" x 2-1/2"	1-3/4" x 4"



COLORS

Request Color Chip samples for actual color
SPECIAL COLORS AVAILABLE UPON REQUEST



BIASABILITY

No Stair Stepping Required



Panel will rack over 30 degrees without special drilling or assembly operations.

GATES



Contact the Ameristar Architectural Department for detailed information and literature on gates.

IMPASSE®

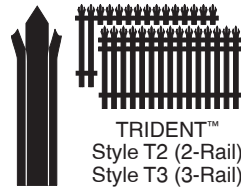
Impasse® was designed to provide the highest level of security in a fence system. Chain-link can be breached in seconds with basic fence pliers. Impasse gives the time needed to respond to a threat to your facility.



Impasse® is the #1 specified product when high security is an issue. Available in multiple heights, styles, and colors, Ameristar has an answer for any high security requirement. Impasse carries a 15 Year Warranty.

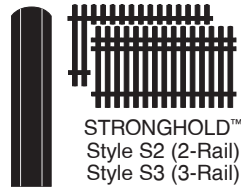
IMPASSE®

STYLES



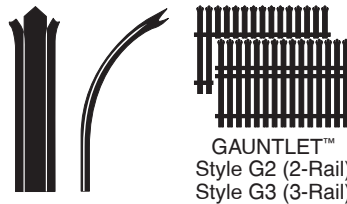
Trident™

The Impasse® Trident™ is designed for high-risk security applications. It is the most suited first line of defense to surround a military installation, a government complex, an airport or seaport, a nuclear or chemical plant, a munitions facility or armory, a reservoir, or any other facility in need of the utmost protection from the possibility of attack. High-tensile steel corrugated pales rise above the topmost rail and terminate with a menacing triple-pointed and splayed spear tip.



Stronghold™

The blunt slightly rounded tip of the Stronghold™ is ideal for facilities like schools, hospitals, sports complexes, racetracks and other public situations where strength is necessary, but safety of the general populace is also an important design consideration.



Gauntlet®

The Gauntlet® is the most serious Impasse® design as it couples the fearsome triple point with an outward curve that discourages attempts to gain entry by climbing. Barbed tape can be attached to make an even more difficult obstacle.

Also available 4-Rail and 5-Rail

STALWART®

Security Upgrade Options

Ameristar's Stalwart® cabling system provides an anti-ram defense against forced entry, or vehicular impact. The Impasse rail provides a concealing tray for the cables.



The Impasse™ posts and horizontal rails accept the Stalwart integrated cable system for added perimeter security. This system has successfully tested to the US Department of State K12 rating, stopping a 15,000 pound truck traveling at 50 mph. This system can be used with a variety of vertical materials such as Impasse pales, standard square ornamental pickets, welded wire, etc. to meet site aesthetic requirements. DOS K8 systems also available.



AMERISTAR® IMPASSE® WITH STALWART® CABLE SYSTEM



- Intrusion Detection System (IDS)

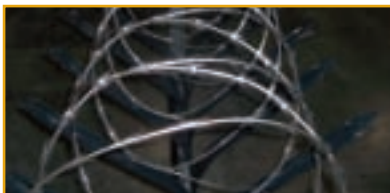


In several systems, the rails function as conduit trays that eliminate the need to trench for underground runs. This enables quicker installation and lowers the overall construction cost.

- CCTV and Lighting Systems



- Barbed Tape



- Anti-Scale Screening System



- Anti-Climb Fence System
45mm (1-3/4") between pales

And More...

- Access Control
- Entrance Containment
- Bollards/Wedges/Planters
- Welded Wire Anti-Climb Inserts
- Biometrics/Card Readers
- Retina & Print Scans

STALWART®

Stalwart® Anti-Ram Cable Barrier

Ameristar's Stalwart® integrated cabling system provides an anti-ram defense against forced entry, or vehicular impact. The Impasse® rail provides a concealing tray for the cables. The Stalwart® can be installed as a stand-alone anti-ram barrier system as shown to the right or as an integral part of the Impasse® ornamental pale fence.



The Gauntlet® shown below uses two additional Impasse® rails placed between the top and bottom rails to accept the Stalwart® integrated cable system. The Stalwart® cable system combined with the Impasse® fence can be sized to meet various levels of anti-ram barrier capability from passenger cars to heavily loaded trucks. The system shown has been proven, in independent testing, to successfully stop 15,000 pound trucks travelling at 40 mph and 50 mph respectively. This means a perimeter barrier can be easily designed to balance security and budget constraints.



Stalwart® allows the ability to integrate a performance-tested vehicle barrier with the aesthetic beauty of an ornamental fence. It also allows incorporation of other security devices such as sensors, CCTV, or electrical conduit.

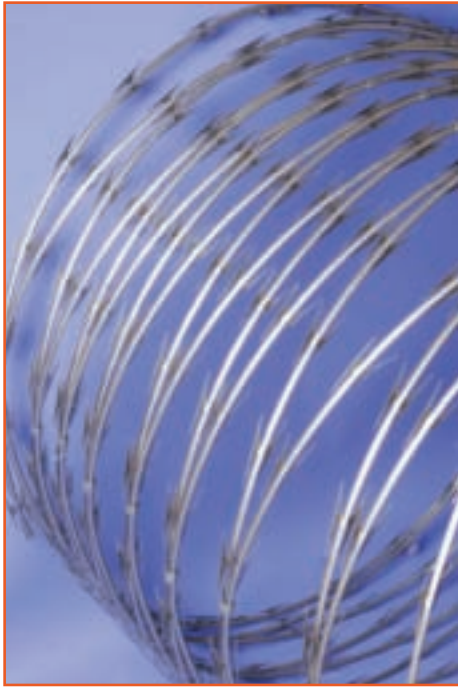


US Department of State and Department of Defense K8 and K12 Anti-Crash Ratings

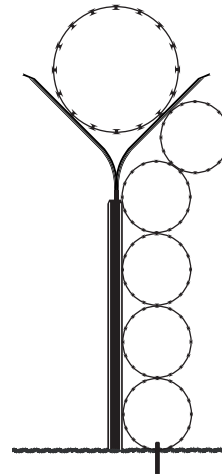
The Impasse® Stalwart® has earned the U.S. Department of State K8 and K12 ratings, successfully stopping a 15,000-pound truck traveling at 40 mph and 50 mph, respectively.

DELTA FORCE®

Delta Force® reinforced long-barbed helical and concertina systems are available in coil sizes from 18" to 60", in both galvanized and stainless steel. Non-reinforced coils are also available for rapid deployment situations.



Delta Force® can be readily deployed as a security topping for any type of parapet type fence, including chain-link with barb arms or with ornamental security fencing such as the Impasse Gauntlet fence shown here.



Barbed Tape Entanglement System

Example:
Impasse® Extreme™
Hardened With
Extended
Gauntlet® Pales
& Delta Force®
DefCon Alpha®

Specifications

For specifications and more detailed information on Impasse High Security Ornamental Pale Fence Systems, Stalwart Anti-Ram Cable Barrier Systems and Delta Force Barbed Tape Obstacle and Entanglement Systems, see Ameristar's Architectural Brochure, 32 31 00/AME.

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