

The image shows a grey composite fence with a diamond-shaped lattice pattern in the foreground. Behind the fence, a power substation is visible, featuring several large, cylindrical insulators and metal structures against a clear blue sky. The text is overlaid on the fence and substation background.

ANC COMPOSITE FENCE SYSTEM™

the non-conductive and
low radar reflectivity
fence system



ALABAMA METAL INDUSTRIES CORPORATION
A GIBRALTAR INDUSTRIES COMPANY 



Alabama Metal Industries Corporation, AMICO, introduces the ANC Composite Fence System™. The ANC System™ is a revolutionary concept that allows the security barrier to be non-conductive (does not conduct electricity) and minimizes the reflectivity or signature of the fence to radar (microwave transmissions).

AMICO continues to introduce and improve physical security products with many added features. The ANC System is no exception. This composite fence system is also:

Non-Metallic

Non-Magnetic

Fire Retardant

Corrosion Resistant

and available in either Medium or Maximum Security.

The System

For ease of new construction and the retrofit of existing fences many of the basic components have been designed to be similar to standard fencing. Utilizing the AMICO network of Certified and Approved Dealer/Installers we can recommend skilled installers throughout the United States and Canada. The system is not made of metal yet almost as strong. Typical ANC Composite Panels are capable of sustaining impact loads in excess of 2,000 lbs.

Materials

The ANC Composite Fence System utilizes panels, posts, fittings and fasteners all made from materials proven to be non-conductive and radar friendly.

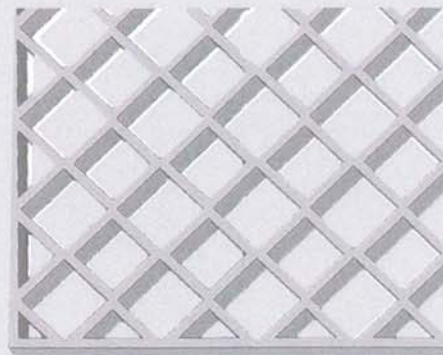
Panels

Panels are manufactured in two standard sizes; 3-ft x 12-ft long and 4-ft x 12-ft long.

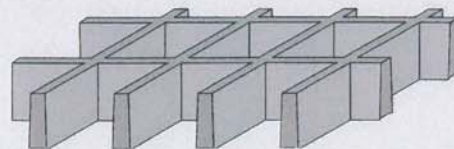
Standard Stock Panel Sizes		
Style	High	Wide
ANC .50-2.25	4'	12'
ANC 1.0-1.75	3'	12'
ANC 1.0-1.75	4'	12'

The 3 and 4-ft sizes provide barriers 6-ft high through 12-ft high. The 12-ft panel width allows ease of installation and added strength with each panel spanning on three posts.

Panels are available with different size openings. The different opening sizes of the panels allow for different levels of security.



ANC .50-2.25 Dark Gray



ANC 1.0-1.75 Dark Gray

Dark gray is the standard color. Custom colors are available.



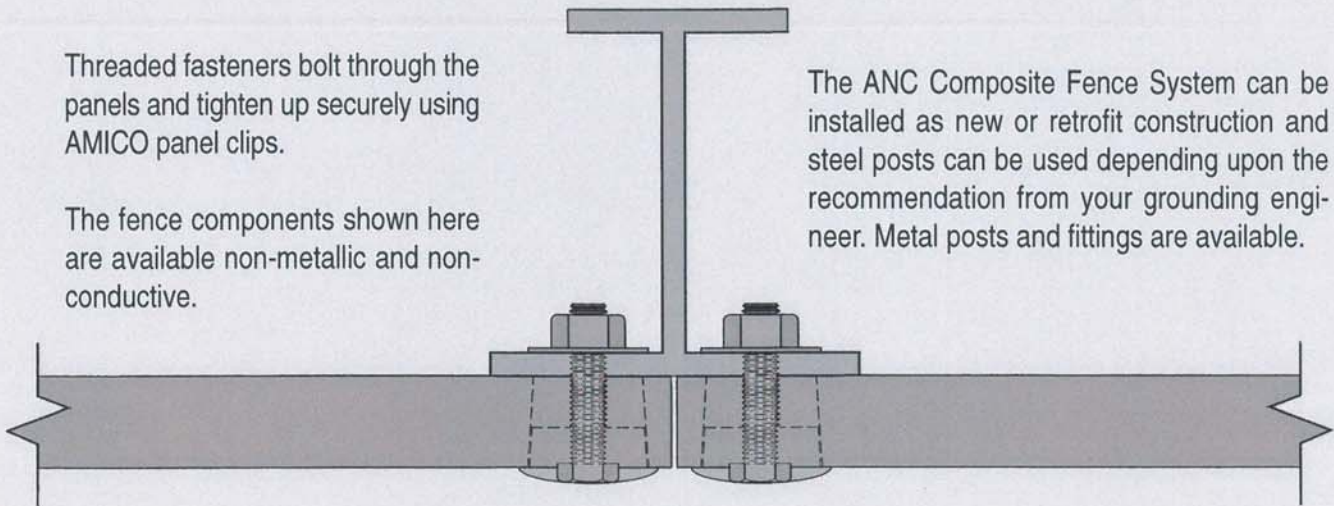


The ANC Composite Fence System™ combines non-conductivity and security into an easy to install solution for the energy industry, air and marine transportation

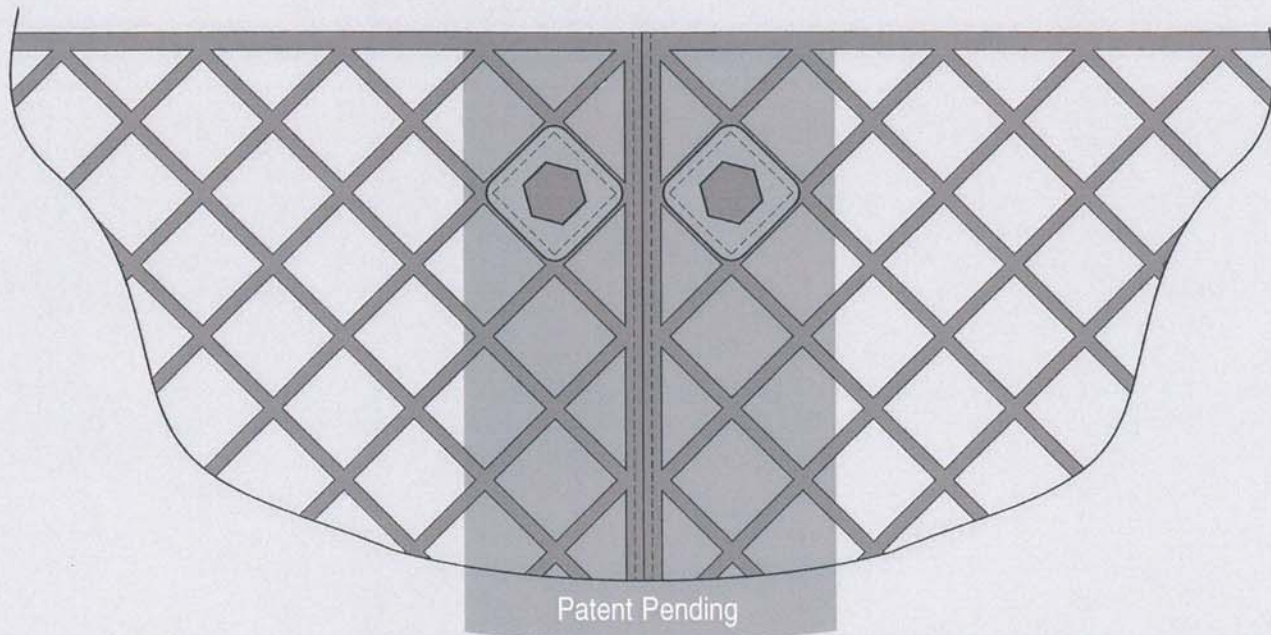
Threaded fasteners bolt through the panels and tighten up securely using AMICO panel clips.

The fence components shown here are available non-metallic and non-conductive.

The ANC Composite Fence System can be installed as new or retrofit construction and steel posts can be used depending upon the recommendation from your grounding engineer. Metal posts and fittings are available.



The materials and information contained herein are designed as a guideline for selecting and planning a non-conductive barrier. Your grounding engineer must assess and approve the final specification.



The AMICO system can accommodate different framework shapes.
ROUND SQUARE T-POST H-POST





PART 1 - General

1.01 DESCRIPTION OF WORK

Included work not limited to the supply and installation of an electrically non-conductive fencing as specified below.

1.02 SUBMITTALS

Product Data: Submit manufacturers' specifications, ANC Non-Conductive Fencing literature and samples as required prior to ordering.

1.03 QUALITY ASSURANCE

Certified and Approved Dealer / Installers shall provide experienced installation crews to install the non-conductive fencing system as specified.

1.04 STORAGE AND HANDLING

Materials shall be stored in such a manner to ensure proper ventilation, drainage and to protect against damage from weather, vandalism and theft. In event of any freight damage, note damage on the freight bill and contact manufacturer immediately.

PART 2 – PRODUCTS

2.01 MANUFACTURER AND ACCEPTABLE PRODUCT

The electrically non-conductive mesh panels shall conform to material specifications as manufactured by Alabama Metal Industries Corporation Birmingham, AL. Security Products Department: Telephone 800/366-2642

2.02 MATERIALS

The materials used to manufacture this non-conductive fence system are not covered under any ASTM standard. The materials and accoutrements for this fencing system are unique. All panels, fittings and methods of securing are of a design implemented for the purpose of creating an electrically non-conductive fence and or greatly reducing the reflectivity / signature of electromagnetic waves (radar). All design, construction and components shall be approved by the owner's engineer to meet the desired level of non-conductivity and electromagnetic wave signature.

2.03 NON-CONDUCTIVE FENCING

A. NEW AND RETROFIT CONSTRUCTION

Depending upon grounding conditions and requirements new non-conductive fence panels may be installed utilizing either non-conductive framework or schedule 40 / SS-40 steel framework. For grounding purposes some of the fittings and fasteners securing panels to the framework shall be the same material as the framework; non-conductive and or steel.

B. Existing metal fence framework may be incorporated into the non-conductive fence. Existing fence posts of a suitable strength and height may be reused to install AMICO non-conductive panels, and a combination of metal and non-metallic fittings and fasteners. Any existing chain link fabric, barbed wire or barbed tape must be removed since these metal items will conduct electricity throughout the fence line.

2.04 LOW RADAR REFLECTIVITY FOR AIRPORT FENCING NEW CONSTRUCTION

With the intent of minimizing the signature of radar and microwave interference; all composite panels, posts, fittings, fasteners and accoutrements shall be used.

2.05 FINISH

The thru-color finish does not require painting. Standard color is dark gray. The finish will not rust or corrode.

PART 3 – Execution

3.01 INSTALLATION

A. Installation and lay-out of the job shall be approved by the owner or general contractor prior to installation.

B. ANC Fencing must be installed using AMICO non-conductive panels, fittings and installed by AMICO Certified and Approved Dealer / Installers.

C. Where possible fence post spacing shall be spaced to allow each panel to join on a post. If two or more panels are used to attain a certain barrier height the panels ends shall be staggered for added strength and security.

D. Vertical joints must be staggered on the ANC .50-2.25 mesh panels and is preferred on the ANC 1.0-1.75 mesh panels.

E. Follow the manufacturer's recommended fittings usage for each type of application whether the installation be 100% Non-Conductive non-metallic or using steel framework to assure safety and security.

F. Follow the cutting, sealing and safety information as provided by the manufacturer.



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For information on other AMICO physical security products

Secura Fence System® - Security Mesh® - Secura Lath® - Secura Mesh Partition System® and Ornamech®
see our website www.amico-securityproducts.com

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