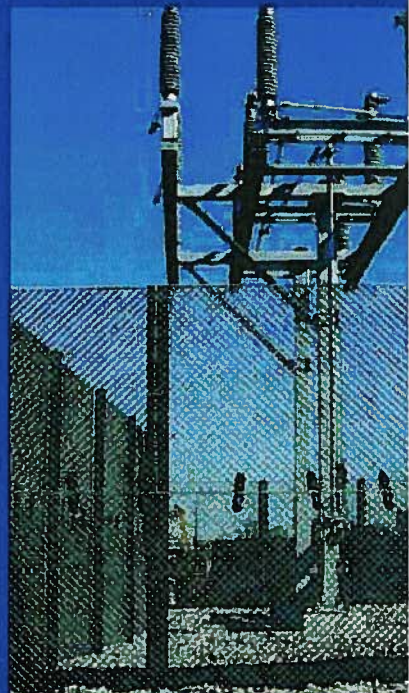




## ANC NON-CONDUCTIVE FENCE SYSTEM



# ANC COMPOSITE FENCE SYSTEM™

Non-Conductive Fencing

Alabama Metal Industries Corporation, AMICO, produces 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 invisible 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-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 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. Since the system is not made of metal the weight per square foot is much lighter than steel 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 invisible to microwaves.

## Panels

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

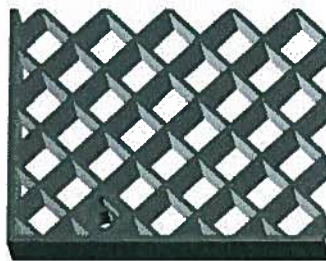
Standard Stock Panel Sizes		
Style	High	Wide
ANC 1.0-1.75	3'	12'
ANC 1.0-1.75	4'	12'
ANC .50-2.25	3'	12'
ANC .50-2.25	4'	12'

The 3 and 4-ft sizes provide barriers 6-ft high through 15-ft high. The 12-ft panel width allows ease of installation and added strength with each panel spanning on three posts.

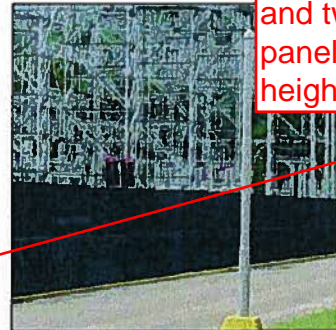
Panels are available with different size openings. The different opening sizes of the panels allow for different levels of security.



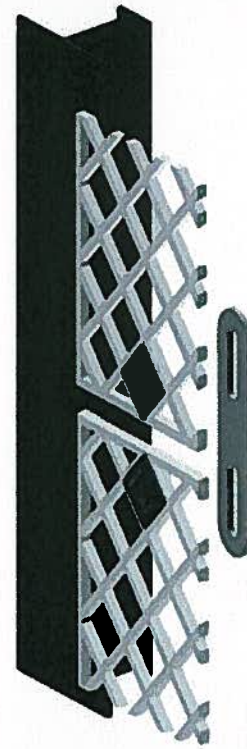
ANC .50-2.25 Medium Security



ANC 1.0-1.75 Maximum Security  
Dark gray is the standard color



CMP will use this model with one 4' and two 3' tall panels for a total height of 10'.



Isometric view of H-Post, ANC Panels, Panel Plugs and Back Straps.



For more information on our security products, visit [www.amico-securityproducts.com](http://www.amico-securityproducts.com) or call 800/366-2642.

# ANC COMPOSITE FENCE SYSTEM™

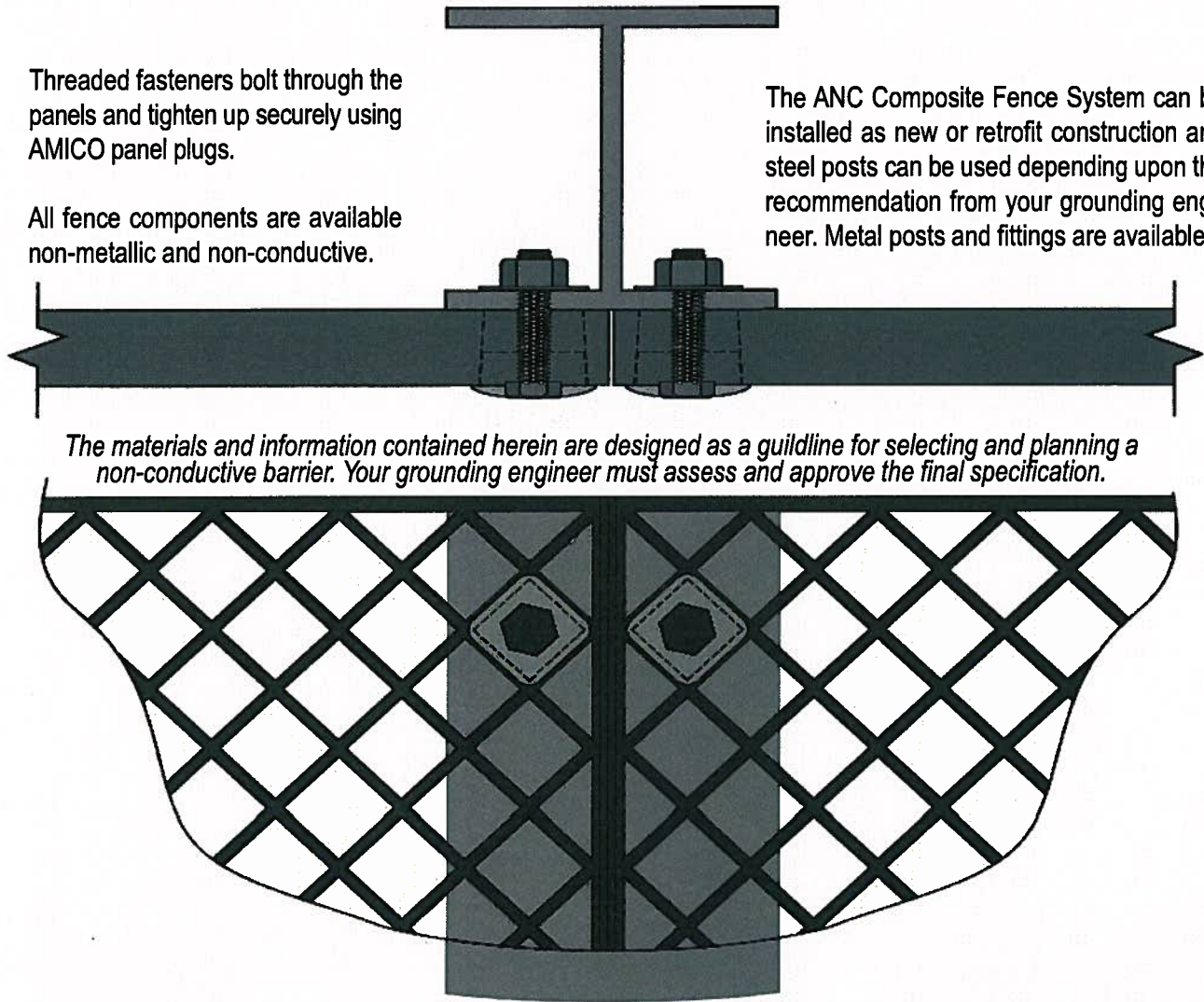
Non-Conductive Fencing

**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 plugs.

All fence components 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.*



Provides Visibility and Air Flow



Provides Safety and Security



Height Not a Problem

For more information on our security products, visit [www.amico-securityproducts.com](http://www.amico-securityproducts.com) or call 800/366-2642.



# ANC COMPOSITE FENCE SYSTEM™

Non-Conductive Fencing

## **PART 1 - General**

### **1.01 DESCRIPTION OF WORK**

Included work not limited to the supply and installation of an electrically non-conductive / radar invisible barrier 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 / radar transparent 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 with material specifications as manufactured by Alabama Metal Industries Corporation (AMICO), Birmingham, AL. Security Products Department: Telephone 800/366-2642

### **2.02 MATERIALS**

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

## **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 the fittings and fasteners securing panels to the framework shall be the same material as the framework; non-conductive 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, metal fittings and metal 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 RADAR TRANSPARENT FENCING**

### **NEW CONSTRUCTION**

With the intent of being invisible to radar and microwave transmissions; all panels, posts, fittings, fasteners and accoutrements shall be non-metallic.

## **2.05 FINISH**

The thru color finish does not require painting. Standard colors are dark gray and green. 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 and fittings.
- C. 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.

QUALITY PRODUCTS COAST TO COAST



A GIBRALTAR INDUSTRIES COMPANY

## **ALABAMA METAL INDUSTRIES CORPORATION**

3245 Fayette Avenue u Birmingham, AL 35208

800/366-2642 u Fax 205/786-6527

For information on other AMICO physical security products

Secura Fence System® - Security Mesh® - Secura Lath® - Secura Mesh Partition System® and Ornameh®  
see our website [www.amico-securityproducts.com](http://www.amico-securityproducts.com)

# ANC COMPOSITE FENCE SYSTEM™

## ANC .50 - 2.25

### PART 1 - GENERAL

#### 1.01 DESCRIPTION OF WORK

Included work not limited to the supply and installation of an electrically non-conductive / reduced radar reflective barrier as specified below.

#### 1.02 SUBMITTALS

Product Data: Submit manufacturers' specifications, ANC Non-Conductive Fencing literature and samples as required prior to ordering. Prior to ordering test certified test results shall be submitted providing the documented ability of the fence system to prevent the transmission of electricity through the system for electric utility applications and the level of radar reflectivity for airport installation. Further, horizontal load deflection test results shall be submitted.

#### 1.03 QUALITY ASSURANCE

Certified and Approved Dealer / Installers shall provide experienced installation crews to install the ANC Fence 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 with material specifications as manufactured by Alabama Metal Industries Corporation (AMICO), Birmingham, AL. Security Products Department:  
Telephone 800/366-2642 or email [ancfence@gibraltar1.com](mailto:ancfence@gibraltar1.com)

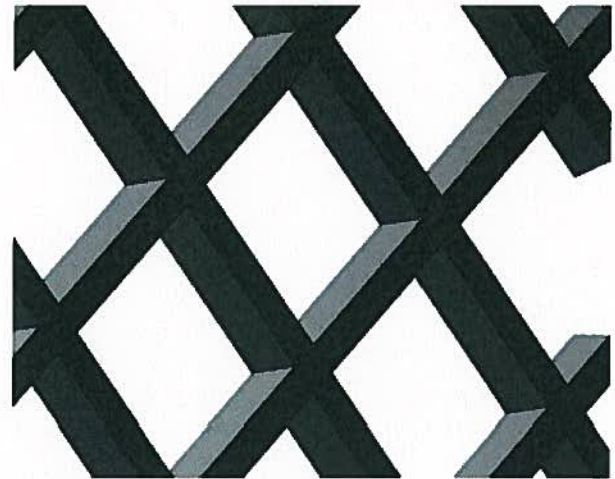
#### 2.02 MATERIALS

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 a barrier that does not conduct electricity and greatly reduces the barriers radar signature. All design, construction and components shall be approved by the owner to meet the desired level of non-conductivity and electromagnetic wave transparency.

#### A. ANC COMPOSITE FENCE PANELS – ANC .50 – 2.25

The ANC Mesh used shall conform to the following specification:

1. Width of panel – 12 ft.
2. Height of panel – 3 ft and 4 ft.
3. Mesh diamond opening – 2.25 inch x 2.25 inch nominal allowing 72% open area
4. Mesh thickness – 0.500 inch nominal
5. Weight – 1.36 pounds per square foot
6. Standard Color - Dark Gray



#### 2.03 ELECTRICAL UTILITY 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.

B. Existing metal fence framework may be incorporated into the non-conductive fence. Existing fence posts of a suitable strength and height may be retrofitted using AMICO non-conductive panels, metal fittings and metal 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 RADAR AND AIRPORT APPLICATIONS NEW CONSTRUCTION

All panels, posts, fittings, fasteners and accoutrements used with the intent of minimizing the radar signature of the barrier shall be non-metallic.

#### 2.05 FINISH

The thru color finish does not require painting. The standard color is dark gray. Request information on custom colors. 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. Follow the fittings usage tables for each type of application whether the application be 100% Non-Conductive non-metallic or using steel framework to assure safety and security.

E. Cutting, sealing and safety information is available upon request from the manufacturer.



# ANC COMPOSITE FENCE SYSTEM™

## ANC 1.0 - 1.75

### PART 1 - GENERAL

#### 1.01 DESCRIPTION OF WORK

Included work not limited to the supply and installation of an electrically non-conductive / reduced radar reflective barrier as specified below.

#### 1.02 SUBMITTALS

Product Data: Submit manufacturers' specifications, ANC Non-Conductive Fencing literature and samples as required prior to ordering. Prior to ordering test certified test results shall be submitted providing the documented ability of the fence system to prevent the transmission of electricity through the system for electric utility applications and the level of radar reflectivity for airport installation. Further, horizontal load deflection test results shall be submitted.

#### 1.03 QUALITY ASSURANCE

Certified and Approved Dealer / Installers shall provide experienced installation crews to install the ANC Fence 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 with material specifications as manufactured by Alabama Metal Industries Corporation (AMICO), Birmingham, AL. Security Products Department:

Telephone 800/366-2642 or email [ancfence@gibraltar1.com](mailto:ancfence@gibraltar1.com)

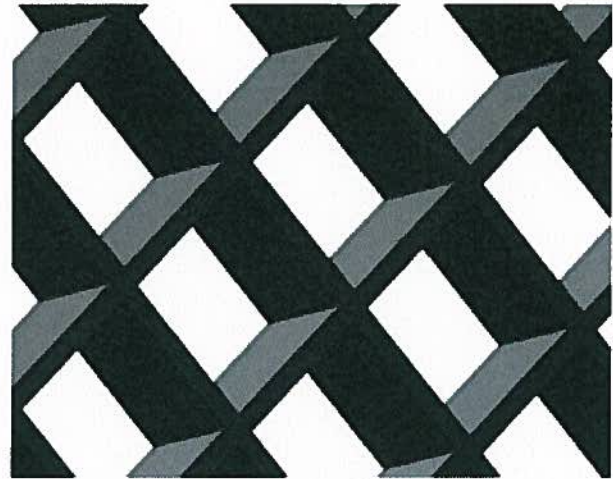
#### 2.02 MATERIALS

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 a barrier that does not conduct electricity and greatly reduces the barriers radar signature. All design, construction and components shall be approved by the owner to meet the desired level of non-conductivity and electromagnetic wave transparency.

#### A. ANC COMPOSITE FENCE PANELS – ANC 1.0 – 1.75

The ANC Mesh used shall conform to the following specification:

1. Width of panel – 12 ft.
2. Height of panel – 3 ft and 4 ft.
3. Mesh diamond opening – 1.75 inch x 1.75 inch nominal allowing 68% open area
4. Mesh thickness – 1.000 inch nominal
5. Weight – 2.36 pounds per square foot
6. Standard Color - Dark Gray



#### 2.03 ELECTRICAL UTILITY 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.

B. Existing metal fence framework may be incorporated into the non-conductive fence. Existing fence posts of a suitable strength and height may be retrofitted using AMICO non-conductive panels, metal fittings and metal 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 RADAR AND AIRPORT APPLICATIONS NEW CONSTRUCTION

All panels, posts, fittings, fasteners and accoutrements used with the intent of minimizing the radar signature of the barrier shall be non-metallic.

#### 2.05 FINISH

The thru color finish does not require painting. The standard color is dark gray. Request information on custom colors. 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. Follow the fittings usage tables for each type of application whether the application be 100% Non-Conductive non-metallic or using steel framework to assure safety and security.

E. Cutting, sealing and safety information is available upon request from the manufacturer.