

## ANC Non-Conductive Fencing System for Security Utility Enclosures

Project Submittals as manufactured by  
ALABAMA METAL INDUSTRIES CORPORATION

Submittal Date:

Contract Number:

Project Name:

Section Number:

Contractor's Name:

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All information contained herein is accurate as known at the time of publication. Specifications may change and AMICO reserves the right to change product specifications without notice and without incurring obligations.

**ALABAMA METAL INDUSTRIES CORPORATION**

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# 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.