

Expanded Metal Security Fencing the AMICO Secura Fence System™

Project Submittals as manufactured by
ALABAMA METAL INDUSTRIES CORPORATION

Submittal Date:

Contract Number:

Project Name:

Section Number:

Contractor's Name:

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

3245 Fayette Avenue ♦ Birmingham, AL 35208 ♦ Telephone 800/366-2642 ♦ Facsimile 205/786-6527
email fmayer@gibraltar1.com





PART 1 GENERAL

1.01 SCOPE OF WORK

Supply and install steel expanded metal fencing system as a perimeter security barrier using the manufacturers' recommended method of installation as specified.

1.02 SYSTEM DESCRIPTION

As manufactured by Alabama Metal Industries Corporation, (AMICO), Secura Mesh Fence Fabric shall be made from a sheet of steel that is simultaneously slit and stretched into a rigid, open mesh diamond making one continuous sheet that cannot unravel. The finished shape of the mesh openings shall be diamond. Conventional expanded metal not manufactured specifically for security purposes is NOT permitted for this use. "No Access Fittings" shall be used to install the Secura Fence System™.

1.03 REFERENCES

- All components shall meet or exceed the following standards:
- ASTM F1267 (Secura Mesh) Type 1, Class 2.
- ASTMA 123 Standard Specification for Zinc Coatings on Iron and Steel Products.
- ASTM A 1011 Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, structural High Strength LowAllow with Improved Formability.
- ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc Coated (Galvanized) Welded For Fence Structures.

1.04 SUBMITTAL

The manufacturers' submittal information shall include brochures, details, specifications and samples if requested prior to ordering.

1.05 QUALITY ASSURANCE

Dealer / Installer shall provide project management and laborers experienced, certified and approved in the installation of the security fencing system as specified.

1.06 STORAGE AND HANDLING

Materials shall be stored in a clean dry location with proper ventilation to avoid damage from moisture. Materials shall be protected against damage from weather, vandalism, and theft. In the event of freight damage, note on freight bill and contact manufacturer immediately

PART 2 MATERIALS

2.01 MANUFACTURER

ALABAMA METAL INDUSTRIES CORPORATION, (AMICO),
3245 Fayette Avenue ♦ Birmingham, AL 35208
Telephone 800/366-2642 ♦ Facsimile 205/786-6527
www.amico-securityproducts.com

2.02 MATERIALS

A. SECURA MESH FENCE FABRIC – ASF .50-13R

The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 0.500 inch x 1.200 inch long bond to bond with 24 diamonds per lineal foot
4. Mesh size opening – width 0.313 inch x 0.938 inch long allowing 58 % open area
5. Mesh strand width - 0.096 inch
6. Mesh strand thickness – 0.092 inch
7. Weight – 1.47 pounds per square foot
8. Weight galvanized – 1.73 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

ASF .50 - 13R



B. FITTINGS - MEDIUM SECURITY

AMICO "No Access Fittings" shall be used to secure the Secura Mesh Fence Fabric to the selected framework. "No Access Fittings" shall be made from pressed steel, in accordance with the strength standards as manufactured by Alabama Metal Industries Corporation, (AMICO), and sized to the specific framework.

1. Secura Bands shall be 11GA x 1" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 11GA x 1" steel with 2 slotted holes.
3. Secura Back Straps shall be 11GA x 1" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 / A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.
2. Color Coated 8-11 heavy mil finish as manufactured by AMICO using the 4-step Trinity Plus application process.

D. FRAMEWORK

1. Framework posts and horizontal rails shall be Schedule 40 Pipe. Size (O.D.) per the owner's engineer. Each post shall have a pressed steel dome cap. Rails shall be secured to line posts using offset line rails clamps.
2. Fittings securing framework posts and rails together shall be a minimum of 14 GA pressed steel.

PART 3 INSTALLATION

Fence posts shall be spaced allowing every other mesh to mesh joint to join at a post. Post spacing shall vary depending upon fence height, and panel size. AMICO Secura Bands shall be used to secure mesh panels to terminal posts. Secura Clamps shall be used to secure mesh panels to line posts and rails. Mesh to mesh panel joints between line posts shall be secured using AMICO Secura Back Straps. AMICO fittings shall be fastened using 3/8" x 2" galvanized carriage bolts. Threads shall be peened, scarfed or welded to prevent easy removal. Gates if required shall be of a welded construction and designed to operate under the added weight of the specified Secura Mesh panel(s).



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2.02 MATERIALS

A. SECURA MESH FENCE FABRIC – ASF .75 – 9R

The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 0.923 inch x 2.00 inch long bond to bond with 13 diamonds per lineal foot
4. Mesh size opening – width 0.688 inch x 1.563 inch long allowing 68% open area
5. Mesh strand width - 0.148 inch
6. Mesh strand thickness – 0.134 inch
7. Weight – 1.80 pounds per square foot
8. Weight galvanized – 1.95 pounds per square foot
9. Secura Mesh shall be reproduced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

ASF .75 - 9R



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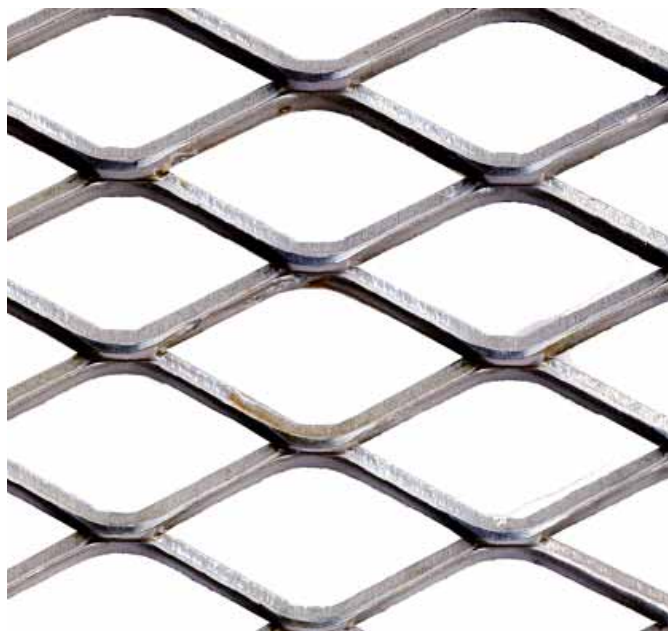
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SECURA FENCE SYSTEM™

ASF .75 - 9R

Short Way of Diamond Running Vertical



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C. FINISH

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2.02 MATERIALS

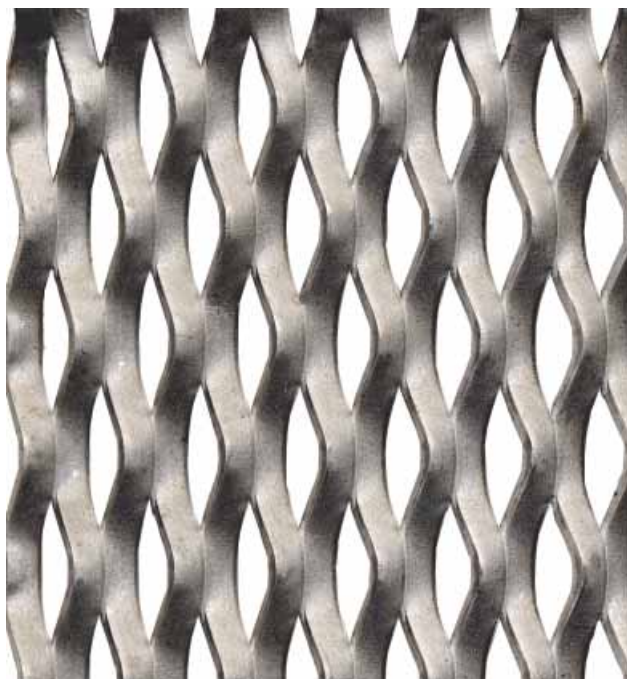
A. SECURA MESH FENCE FABRIC – ASF .50-13R MODIFIED

The Secura Mesh used shall conform to the following specification:

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2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 0.500 inch x 1.200 inch long bond to bond with 24 diamonds per lineal foot
4. Mesh size opening – width 0.250 -0.261 inch x 0.80 -0.86 inch long allowing 25% - 30% open area
5. Mesh strand width - 0.188 inch
6. Mesh strand thickness – 0.090 inch
7. Weight – 2.82 pounds per square foot
8. Weight galvanized – 3.10 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

ASF .50 - 13R MODIFIED



B. FITTINGS - MAXIMUM SECURITY

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1. Secura Bands shall be 10GA x 2" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 10GA x 2" steel with 2 slotted holes.
3. Secura Back Straps shall be 10GA x 2" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 /A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.
2. Color Coated 8-11 heavy mil finish as manufactured by AMICO using the 4-step Trinity Plus application process.

D. FRAMEWORK

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PART 3 INSTALLATION

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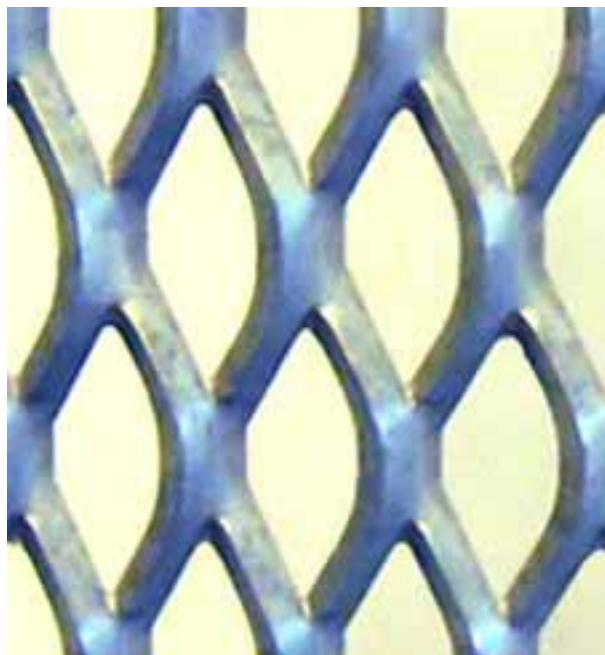
A. SECURA MESH FENCE FABRIC – ASF 1.0-7R

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3. Mesh diamond width – 1.00 inch x 2.25 inch long bond to bond with 11 diamonds per lineal foot
4. Mesh size opening – width 0.50 -0.5625 inch x 1.50 inch long allowing 39% - 41% open area
5. Mesh strand width - 0.254 inch
6. Mesh strand thickness – 0.170 inch
7. Weight – 3.31 pounds per square foot
8. Weight galvanized – 3.78 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

**ASF 1.0 - 7R
STANDARD**



B. FITTINGS - MAXIMUM SECURITY

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The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
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3. Mesh diamond width – 0.875 inch x 2.20 inch long bond to bond with 11 diamonds per lineal foot
4. Mesh size opening – width 0.45 -0.50 inch x 1.550 inch long allowing 39% -41% open area
5. Mesh strand width - 0.257 inch
6. Mesh strand thickness – 0.183 inch
7. Weight – 4.41 pounds per square foot
8. Weight galvanized – 4.79 pounds per square foot

SECURA FENCE SYSTEM™ ASF 1.0 - 7R HEAVY MODIFIED



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Materials shall be stored in a clean dry location with proper ventilation to avoid damage from moisture. Materials shall be protected against damage from weather, vandalism, and theft. In the event of freight damage, note on freight bill and contact manufacturer immediately

PART 2 MATERIALS

2.01 MANUFACTURER

ALABAMA METAL INDUSTRIES CORPORATION, (AMICO),
3245 Fayette Avenue ♦ Birmingham, AL 35208
Telephone 800/366-2642 ♦ Facsimile 205/786-6527
www.amico-securityproducts.com

2.02 MATERIALS

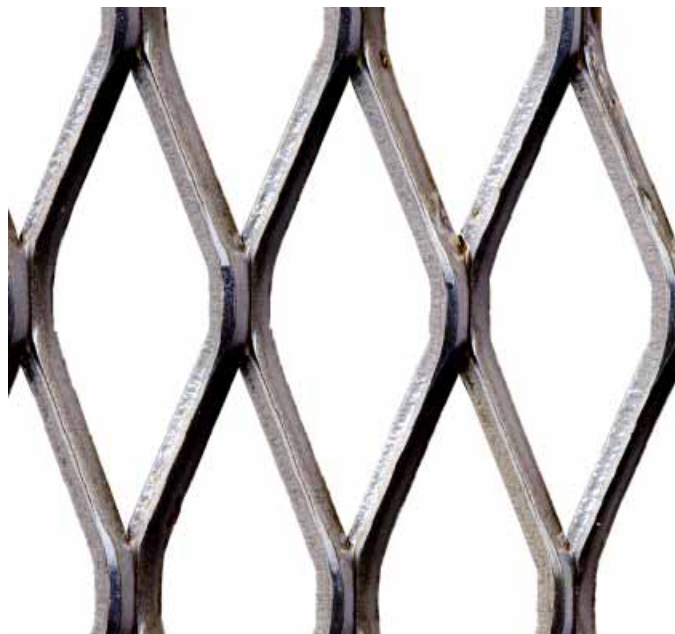
A. SECURA MESH FENCE FABRIC – ASF 1.5-6R

The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 1.330 inch x 3.00 inch long bond to bond with 9 diamonds per lineal foot
4. Mesh size opening – width 1.000 inch x 2.313 inch long allowing 63% open area
5. Mesh strand width - 0.201 inch
6. Mesh strand thickness – 0.198 inch
7. Weight – 2.50 pounds per square foot
8. Weight galvanized – 2.73 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

ASF 1.5 - 6R



B. FITTINGS - MAXIMUM SECURITY

AMICO "No Access Fittings" shall be used to secure the Secura Mesh Fence Fabric to the selected framework. "No Access Fittings" shall be made from pressed steel, in accordance with the strength standards as manufactured by Alabama Metal Industries Corporation, (AMICO), and sized to the specific framework.

1. Secura Bands shall be 10GA x 2" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 10GA x 2" steel with 2 slotted holes.
3. Secura Back Straps shall be 10GA x 2" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 / A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.
2. Color Coated 8-11 heavy mil finish as manufactured by AMICO using the 4-step Trinity Plus application process.

D. FRAMEWORK

1. Framework posts and horizontal rails shall be Schedule 40 Pipe. Size (O.D.) per the owner's engineer. Each post shall have a pressed steel dome cap. Rails shall be secured to line posts using offset line rails clamps.
2. Fittings securing framework posts and rails together shall be a minimum of 14 GA pressed steel.

PART 3 INSTALLATION

Fence posts shall be spaced allowing every other mesh to mesh joint to join at a post. Post spacing shall vary depending upon fence height, and panel size. AMICO Secura Bands shall be used to secure mesh panels to terminal posts. Secura Clamps shall be used to secure mesh panels to line posts and rails. Mesh to mesh panel joints between line posts shall be secured using AMICO Secura Back Straps. AMICO fittings shall be fastened using 3/8" x 2" galvanized carriage bolts. Threads shall be peened, scarfed or welded to prevent easy removal. Gates if required shall be of a welded construction and designed to operate under the added weight of the specified Secura Mesh panel(s).

SECURA FENCE SYSTEM™ MEDIUM SECURITY

The AMICO System

“Security is an Attitude” and the Secura Fence System looks and is secure. The majority of existing and future perimeter fences are chain link topped with barbed wire or razor ribbon and will provide only basic security. An intruder can quickly and effortlessly penetrate this type fence due to the ease of cutting, climbing or crawling under it. A chain link fence even when equipped with sophisticated electronic detection devices, alarm systems or cameras can detect the intruder but will not delay them. The intruder has enough time to get into a restricted area fenced by chain link, accomplish his objective and escape before authorities have time to respond.

Secura Fence System works equally well in both new construction and retrofit applications. Utilizing the three system components; Secura Mesh, AMICO “No Access” fittings and our network of Certified and Approved Dealer / Installers a physical barrier can be designed, specified and installed creating the level of security required for any installation. See Figure 1.

1. Secura Mesh is available in a medium and maximum security offering a unique barrier with different sized mesh openings.
2. AMICO “No Access” fittings have performed as designed to assist the Secura Mesh in being a formidable barrier with-

out the usual voids and spaces created with other fencing products. AMICO fittings are considerably stronger and thicker than fittings used in any other fence system. See Figures 2 and 3.

3. A key component of any fence system is installation. AMICO has developed a nationwide network of Certified and Approved Dealer / Installers with experienced labor to install our system.

Either as a stand alone fence barrier or to retrofit an existing chainlink, ornamental iron and welded wire fences, Secura Fence has the solution.

Secura Fence may be used as a vertical barrier, with a capsheet to deter climbing and or with trench fill to prevent tunneling with all types of fencing.

Figure 1. Applications

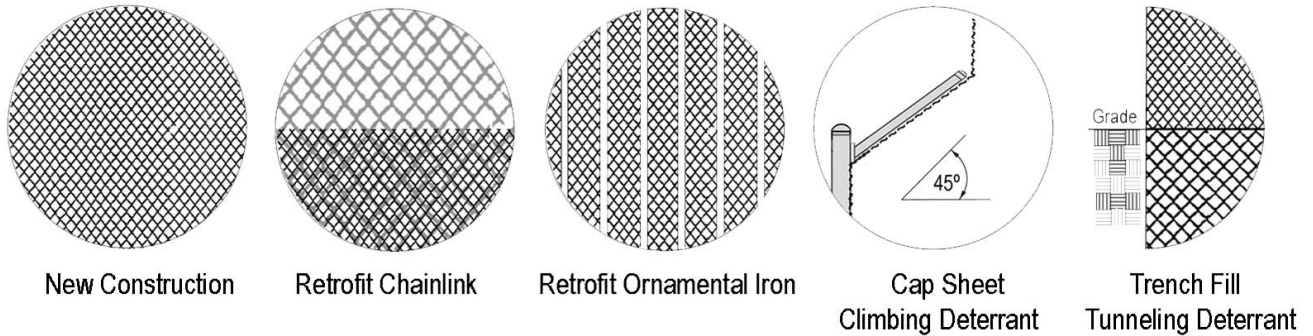


Figure 2. Amico “No Access” Fittings - Medium Security Fittings are 11GA x 1" wide

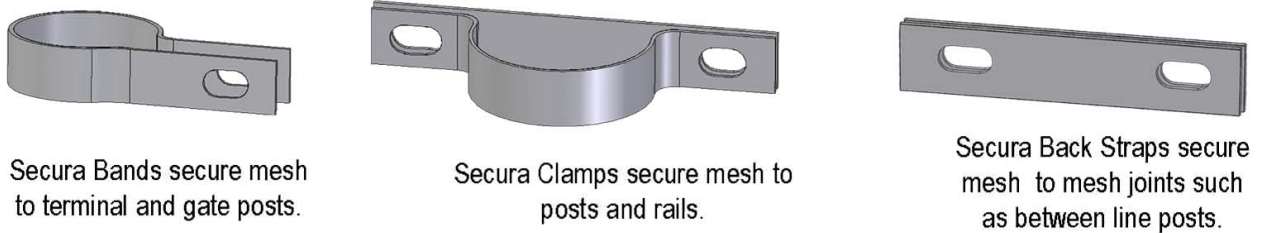
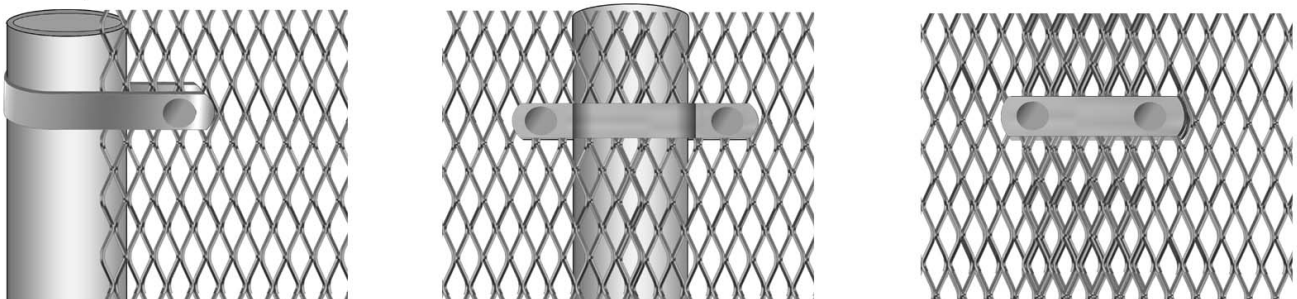


Figure 3. Fittings Usage



AMICO fittings are available in standard fence framework sizes for both round and square posts. contact AMICO in Birmingham, Alabama by telephone 800/366-2642, facsimile 205/786-6527 or email securafence@gibraltar1.com for assistance with questions or writing specifications.

SECURA FENCE SYSTEM™ MAXIMUM SECURITY

The AMICO System

“Security is an Attitude” and the Secura Fence System looks and is secure. The majority of existing and future perimeter fences are chain link topped with barbed wire or razor ribbon and will provide only basic security. An intruder can quickly and effortlessly penetrate this type fence due to the ease of cutting, climbing or crawling under it. A chain link fence even when equipped with sophisticated electronic detection devices, alarm systems or cameras can detect the intruder but will not delay them. The intruder has enough time to get into a restricted area fenced by chain link, accomplish his objective and escape before authorities have time to respond.

Secura Fence System works equally well in both new construction and retrofit applications. Utilizing the three system components; Secura Mesh, AMICO “No Access” fittings and our network of Certified and Approved Dealer / Installers a physical barrier can be designed, specified and installed creating the level of security required for any installation. See Figure 1.

1. Secura Mesh is available in a medium and maximum security offering a unique barrier with different sized mesh openings.
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Figure 1. Applications

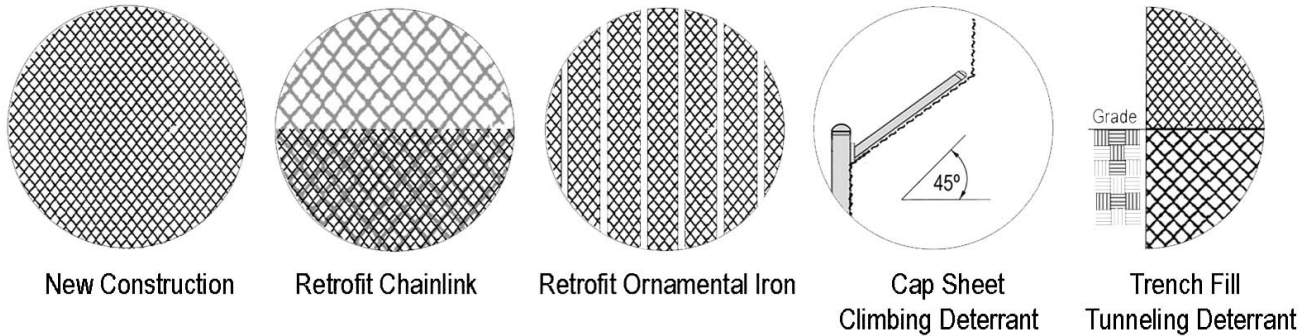
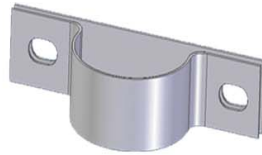


Figure 2. Amico “No Access” Fittings - Maximum Security Fittings are 10GA x 2" wide



Secura Bands secure mesh to terminal and gate posts.

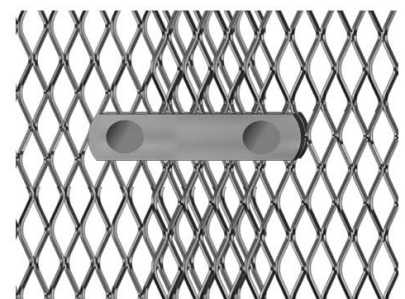
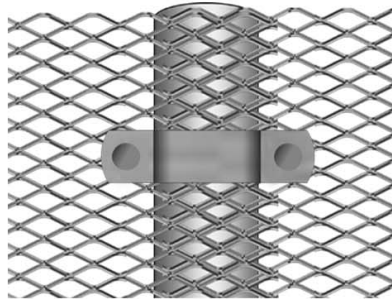
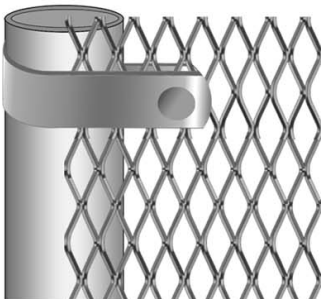


Secura Clamps secure mesh to posts and rails.



Secura Back Straps secure mesh to mesh joints such as between line posts.

Figure 3. Fittings Usage



AMICO fittings are available in standard fence framework sizes for both round and square posts. contact AMICO in Birmingham, Alabama by telephone 800/366-2642, facsimile 205/786-6527 or email securafence@gibraltar1.com for assistance with questions or writing specifications.



1.01 SCOPE OF WORK

Supply and install steel expanded metal CAP SHEET anti-climb accoutrement for the Secura Fence System as a perimeter security barrier using the manufacturers' recommended method of installation as specified.

1.02 SYSTEM DESCRIPTION

As manufactured by Alabama Metal Industries Corporation, (AMICO), Secura Mesh Fence Fabric shall be made from a sheet of steel that is simultaneously slit and stretched into a rigid, open mesh diamond making one continuous sheet that cannot unravel. The finished shape of the mesh openings shall be diamond. Conventional expanded metal not manufactured specifically for security purposes is NOT permitted for this use. "No Access Fittings" shall be used to install the Secura Fence System™.

1.03 REFERENCES

- All components shall meet or exceed the following standards:
- ASTM F1267 (Secura Mesh) Type 1, Class 2.
 - ASTMA 123 Standard Specification for Zinc Coatings on Iron and Steel Products.
 - ASTM A 1011 Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, structural High Strength LowAllow with Improved Formability.
 - ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc Coated (Galvanized) Welded For Fence Structures.

1.04 SUBMITTAL

The manufacturers' submittal information shall include brochures, details, specifications and samples if requested prior to ordering.

1.05 QUALITY ASSURANCE

Dealer / Installer shall provide project management and laborers experienced, certified and approved in the installation of the security fencing system as specified.

1.06 STORAGE AND HANDLING

Materials shall be stored in a clean dry location with proper ventilation to avoid damage from moisture. Materials shall be protected against damage from weather, vandalism, and theft. In the event of freight damage, note on freight bill and contact manufacturer immediately

PART 2 MATERIALS

2.01 MANUFACTURER

ALABAMA METAL INDUSTRIES CORPORATION, (AMICO),
3245 Fayette Avenue ♦ Birmingham, AL 35208
Telephone 800/366-2642 ♦ Facsimile 205/786-6527
www.amico-securityproducts.com

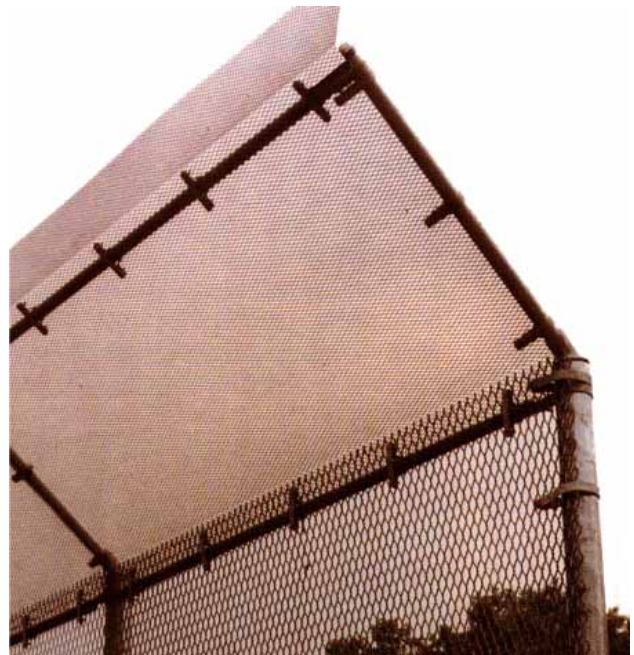
2.02 MATERIALS

A. SECURA MESH FENCE FABRIC – ASF .50-13R

The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 0.500 inch x 1.200 inch long bond to bond with 24 diamonds per lineal foot
4. Mesh size opening – width 0.313 inch x 0.938 inch long allowing 58 % open area
5. Mesh strand width - 0.096 inch
6. Mesh strand thickness – 0.092 inch
7. Weight – 1.47 pounds per square foot
8. Weight galvanized – 1.73 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™ CAP SHEET



B. FITTINGS - MEDIUM SECURITY

AMICO "No Access Fittings" shall be used to secure the Secura Mesh Fence Fabric to the selected framework. "No Access Fittings" shall be made from pressed steel, in accordance with the strength standards as manufactured by Alabama Metal Industries Corporation, (AMICO), and sized to the specific framework.

1. Secura Bands shall be 11GA x 1" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 11GA x 1" steel with 2 slotted holes.
3. Secura Back Straps shall be 11GA x 1" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 / A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.
2. Color Coated 8-11 heavy mil finish as manufactured by AMICO using the 4-step Trinity Plus application process.

D. FRAMEWORK

1. Framework posts and horizontal rails shall be Schedule 40 Pipe. Size (O.D.) per the owner's engineer. Each post shall have a pressed steel dome cap. Rails shall be secured to line posts using offset line rails clamps.
2. Fittings securing framework posts and rails together shall be a minimum of 14 GA pressed steel.

PART 3 INSTALLATION

Capsheet shall be installed on top of vertical fence. Vertical fence may be any style: expanded metal, ornamental iron, welded wire or chain link. Pipe extension arms supporting the capsheet shall extend out the length of the capsheet and be connected to the vertical barrier using Secura Capsheet Angles. Secura Clamps shall be used to secure mesh panels to the pipe extension. Secura Clamps shall be used to secure mesh panels to the capsheet rail. Mesh to mesh panel joints between pipe extension arms shall be secured using Secura Back Straps. AMICO fittings shall be fastened using 3/8" x 2" galvanized carriage bolts. Threads shall be peened, scarfed or welded to prevent easy removal.



PART 1 GENERAL

1.01 SCOPE OF WORK

Supply and install steel expanded metal fencing system as a perimeter security barrier using the manufacturers' recommended method of installation as specified.

1.02 SYSTEM DESCRIPTION

As manufactured by Alabama Metal Industries Corporation, (AMICO), Secura Mesh Fence Fabric shall be made from a sheet of steel that is simultaneously slit and stretched into a rigid, open mesh diamond making one continuous sheet that cannot unravel. The finished shape of the mesh openings shall be diamond. Conventional expanded metal not manufactured specifically for security purposes is NOT permitted for this use. "No Access Fittings" shall be used to install the Secura Fence System™.

1.03 REFERENCES

All components shall meet or exceed the following standards:

ASTM F1267 (Secura Mesh) Type 1, Class 2.

ASTMA 123 Standard Specification for Zinc Coatings on Iron and Steel Products.

ASTM A 1011 Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, structural High Strength LowAllow with Improved Formability.

ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc Coated (Galvanized) Welded For Fence Structures.

1.04 SUBMITTAL

The manufacturers' submittal information shall include brochures, details, specifications and samples if requested prior to ordering.

1.05 QUALITY ASSURANCE

Dealer / Installer shall provide project management and laborers experienced, certified and approved in the installation of the security fencing system as specified.

1.06 STORAGE AND HANDLING

Materials shall be stored in a clean dry location with proper ventilation to avoid damage from moisture. Materials shall be protected against damage from weather, vandalism, and theft. In the event of freight damage, note on freight bill and contact manufacturer immediately

PART 2 MATERIALS

2.01 MANUFACTURER

ALABAMA METAL INDUSTRIES CORPORATION, (AMICO),
3245 Fayette Avenue ♦ Birmingham, AL 35208
Telephone 800/366-2642 ♦ Facsimile 205/786-6527
www.amico-securityproducts.com

2.02 MATERIALS

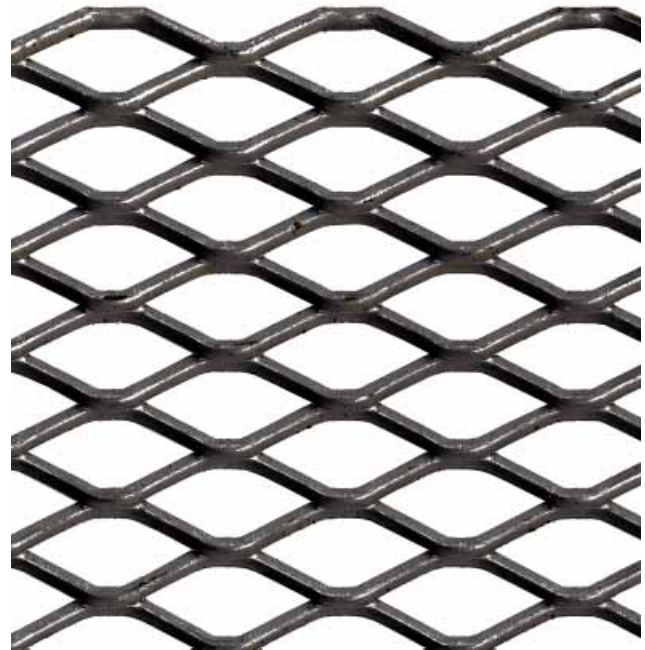
A. SECURA MESH FENCE FABRIC – ASF .50-13R

The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 0.500 inch x 1.200 inch long bond to bond with 24 diamonds per lineal foot
4. Mesh size opening – width 0.313 inch x 0.938 inch long allowing 58 % open area
5. Mesh strand width - 0.096 inch
6. Mesh strand thickness – 0.092 inch
7. Weight – 1.47 pounds per square foot
8. Weight galvanized – 1.73 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

SECURA FENCE SYSTEM™

CAP SHEET ASF .50-13R



B. FITTINGS - Cap Sheet Fittings

AMICO "No Access Fittings" shall be used to secure the Secura Mesh Fence Fabric to the selected framework. "No Access Fittings" shall be made from pressed steel, in accordance with the strength standards as manufactured by Alabama Metal Industries Corporation, (AMICO), and sized to the specific framework.

1. Secura Bands shall be 11GA x 1" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 11GA x 1" steel with 2 slotted holes.
3. Secura Back Straps shall be 11GA x 1" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 / A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.
2. Color Coated 8-11 heavy mil finish as manufactured by AMICO using the 4-step Trinity Plus application process.

D. FRAMEWORK

1. Framework posts and horizontal rails shall be Schedule 40 Pipe. Size (O.D.) per the owner's engineer. Each post shall have a pressed steel dome cap. Rails shall be secured to line posts using offset line rails clamps.
2. Fittings securing framework posts and rails together shall be a minimum of 14 GA pressed steel.

PART 3 INSTALLATION

Capsheet shall be installed on top of vertical fence. Vertical fence may be any style: expanded metal, ornamental iron, welded wire or chain link. Pipe extension arms supporting the capsheet shall extend out the length of the capsheet and be connected to the vertical barrier using Secura Capsheet Angles. Secura Clamps shall be used to secure mesh panels to the pipe extension. Secura Clamps shall be used to secure mesh panels to the capsheet rail. Mesh to mesh panel joints between pipe extension arms shall be secured using Secura Back Straps. AMICO fittings shall be fastened using 3/8" x 2" galvanized carriage bolts. Threads shall be peened, scarfed or welded to prevent easy removal.

TRENCH FILL INSERT FROM AMICO

- ◇ CUTS COSTS
- ◇ SAVES TIME
- ◇ MEET COMPLETION SCHEDULES

Save money by eliminating the concrete grade beam or curb underneath the perimeter fence without any sacrifice in security. Replace concrete with Secura Mesh for faster installation, labor savings and cost effectiveness.

Normally the first step on the perimeter is to dig the trench. Fence posts are set in concrete footings throughout the perimeter fence line. The fence is then installed.

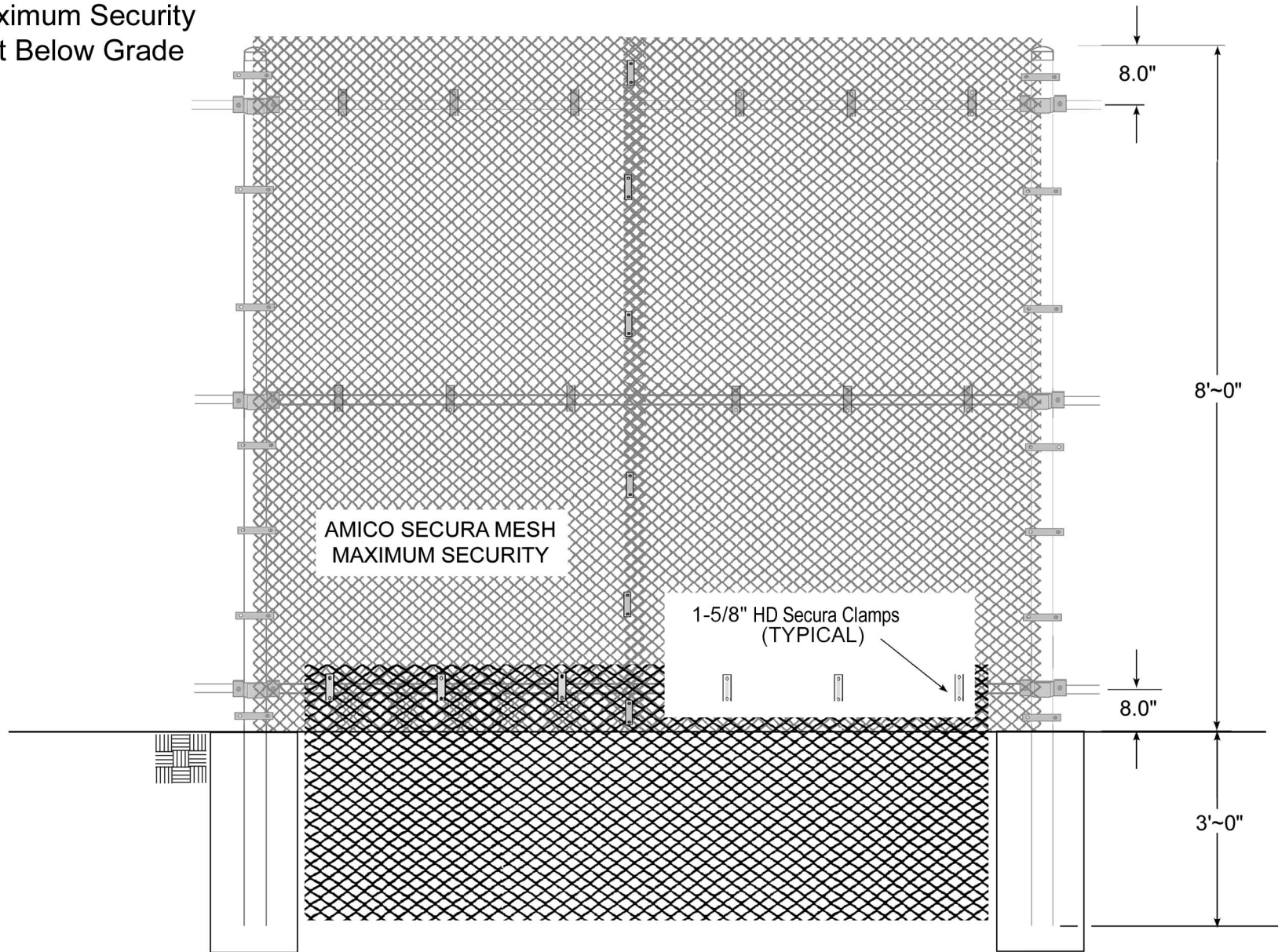
The trench is left open during this entire time consuming process. When it is finally time to pour concrete into the trench, rain, slides, and cave-ins have caused the ditch to be unusable until cleaned out or re-dug. This causes delay, extra labor and added costs.

Avoid these complications by using Secura Mesh instead of concrete. After the trench is dug the Secura Mesh can be installed at the same time the posts are being set and the trench can be filled in and packed with dirt. No Delay, no extra labor, less cost than concrete, same degree of security, and faster completion of the job.



TrenchFill Panels
New Construction
Maximum Security
3-Ft Below Grade

AMICO® SECURA FENCE SYSTEM™



* Pipe Sizes are Generally Determined
by Wind Loading. Refer to AMICO website for Assistance
www.amico-securityproducts.com/windload/windload.php

ALABAMA METAL INDUSTRIES CORPORATION
BIRMINGHAM, ALABAMA

Tel 800/366-2642 ♦ FAX 205/786-6527



PART 1 GENERAL

1.01 SCOPE OF WORK

Supply and install steel expanded metal fencing system as a perimeter security barrier using the manufacturers' recommended method of installation as specified.

1.02 SYSTEM DESCRIPTION

As manufactured by Alabama Metal Industries Corporation, (AMICO), Secura Mesh Fence Fabric shall be made from a sheet of steel that is simultaneously slit and stretched into a rigid, open mesh diamond making one continuous sheet that cannot unravel. The finished shape of the mesh openings shall be diamond. Conventional expanded metal not manufactured specifically for security purposes is NOT permitted for this use. "No Access Fittings" shall be used to install the Secura Fence System™.

1.03 REFERENCES

- All components shall meet or exceed the following standards:
- ASTM F1267 (Secura Mesh) Type 1, Class 2.
 - ASTMA 123 Standard Specification for Zinc Coatings on Iron and Steel Products.
 - ASTM A 1011 Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, structural High Strength LowAllow with Improved Formability.
 - ASTM F1083 Specification for Pipe, Steel, Hot-Dipped Zinc Coated (Galvanized) Welded For Fence Structures.

1.04 SUBMITTAL

The manufacturers' submittal information shall include brochures, details, specifications and samples if requested prior to ordering.

1.05 QUALITY ASSURANCE

Dealer / Installer shall provide project management and laborers experienced, certified and approved in the installation of the security fencing system as specified.

1.06 STORAGE AND HANDLING

Materials shall be stored in a clean dry location with proper ventilation to avoid damage from moisture. Materials shall be protected against damage from weather, vandalism, and theft. In the event of freight damage, note on freight bill and contact manufacturer immediately

PART 2 MATERIALS

2.01 MANUFACTURER

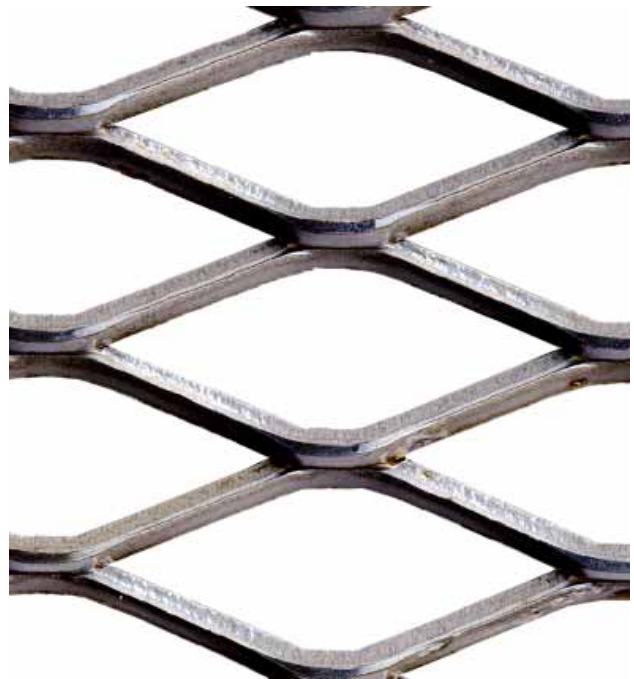
ALABAMA METAL INDUSTRIES CORPORATION, (AMICO),
3245 Fayette Avenue ♦ Birmingham, AL 35208
Telephone 800/366-2642 ♦ Facsimile 205/786-6527
www.amico-securityproducts.com

2.02 MATERIALS

A. SECURA MESH FENCE FABRIC – Trench Fill ASF 1.5-6R
The Secura Mesh used shall conform to the following specification:

1. Width of panel – 4 ft. through 7 ft.
2. Height of panel – 8 ft through 12 ft.
3. Mesh diamond width – 1.330inch x 3.00 inch long bond to bond with 9 diamonds per lineal foot
4. Mesh size opening – width 1.000 inch x 2.313 inch long allowing 63% open area
5. Mesh strand width - 0.201 inch
6. Mesh strand thickness – 0.198 inch
7. Weight – 2.50 pounds per square foot
8. Weight galvanized – 2.73 pounds per square foot
9. Secura Mesh shall be produced by Alabama Metal Industries Corporation, (AMICO)

**SECURA FENCE SYSTEM™
Trench Fill ASF 1.5 - 6R**



B. FITTINGS - MAXIMUM SECURITY

AMICO "No Access Fittings" shall be used to secure the Secura Mesh Fence Fabric to the selected framework. "No Access Fittings" shall be made from pressed steel, in accordance with the strength standards as manufactured by Alabama Metal Industries Corporation, (AMICO), and sized to the specific framework.

1. Secura Bands shall be 10GA x 2" steel with 3" neck and slotted hole.
2. Secura Clamps shall be 10GA x 2" steel with 2 slotted holes.
3. Secura Back Straps shall be 10GA x 2" with 2 slotted holes.

C. FINISH

1. Galvanized finish for Secura Mesh and "No Access" Fittings shall be hot dip galvanized to meet ASTM A 123 /A 123M Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products.

D. FRAMEWORK

1. Framework posts and horizontal rails shall be Schedule 40 Pipe. Size (O.D.) per the owner's engineer. Each post shall have a pressed steel dome cap. Rails shall be secured to line posts using offset line rails clamps.
2. Fittings securing framework posts and rails together shall be a minimum of 14 GA pressed steel.

PART 3 INSTALLATION

Post spacing shall vary depending upon fence height, and panel size. A trench shall be dug as required for the Trench Fill Panel to be set in place with the top edge of the panel extending 4-inches above the bottom rail. The same AMICO Secura Clamps shall be used to secure the vertical fence mesh panels and Trench Fill Panels to the bottom rail. Overlap the vertical panels over the Trench Fill Panels. AMICO fittings shall be fastened using 3/8" x 2" galvanized carriage bolts. Threads shall be peened, scarfed or welded to prevent easy removal.