

**SECUREX SECURITY MESH**  
**MEDIUM SECURITY**  
**1/2 " #13 FLAT SECURITY MESH**



**PART 1 GENERAL**

**1.01 SCOPE OF WORK**

Supply and install expanded metal security mesh for use as a security barrier inside of walls.

**1.02 SYSTEM DESCRIPTION**

System will include high security expanded metal mesh panels and security clips as manufactured by Niles Fence and Security.

**1.03 REFERENCES**

All components shall meet or exceed the following the standards:

ASTM A123 Standard Specification for Zinc Coatings on Iron and Steel Products

ASTM F1267 Standard Specification for Metal, Expanded Steel – Type 2, Class 1

**1.04 SUBMITTALS**

Manufacturers' product data sheets including details and drawings. Provide plan, post spacing, sizing and finish to depict proper design considerations with contract drawings.

**1.05 QUALITY ASSURANCE**

Contractor shall provide installers experienced with the installation of expanded metal security mesh.

**1.06 DELIVERY, STORAGE AND HANDLING**

Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism and theft.

**PART 2 PRODUCTS**

**2.01 MANUFACTURER**

Niles Fence and Security, 310 N. Pleasant Ave., Niles, Ohio 44446. Telephone: 800-321-7464 Fax: 330-299-0329

Website: [www.NilesFence.com](http://www.NilesFence.com)

**2.02 MATERIALS**

**A. SECURITY MESH** - The expanded metal security mesh shall conform to the following:

1. Type – 1/2" #13 FLAT
2. Panel Size (width) - 48" to 72"
3. Panel Size (height) – 72" to 144"
4. Strand Width – 0.107"
5. Strand Thickness – 0.078"
6. SWD – 0.50"
7. LWD – 1.25"
8. Percent open area – 52%
9. Weight per sq. foot – 1.40 lbs.

**B. SECURITY CLIPS** – The Securex expanded metal security mesh panels shall be installed using Securex Clips based on either a 24 inch or 16 inch stud spacing.

1. Square Securex Clips – 3 inch square
2. Round Securex Clips – 2.376 inch round

For metal framing use self tap screws to a penetration depth of 3/8 inch. For wood framing use 1-5/8 inch drywall screws to a penetration depth of 1-1/2 inches.

**C. FINISH**

Securex expanded metal security mesh panels shall be supplied and installed in our standard mill finish.

**PART 3 EXECUTION**

**3.01 INSTALLATION**

All installations shall be laid out by contractor in accordance with construction plans. Expanded metal security mesh panels shall be installed with the diamond pattern running either vertically or horizontally per plans. Security mesh panels shall connect at a framing member and either join together at the bond or interlock at the diamond bond per contract requirements. With stud spacing at 24 inches, Securex clips shall be spaced 12-14 inches vertically (50 clips per 100 square feet). With stud spacing at 16 inches, Securex clips shall be spaced at 12-14 inches vertically (75 clips per 100 square feet).



**NILES FENCE & SECURITY**  
**PRODUCTS, LLC.**