AMICO Security Mesh™ Specifications: ASM 1.5-9F Medium Security

PART 1 GENERAL

1.1 Scope of Work

Supply and install steel expanded mesh panels as a penetration barrier behind wall board using the manufacturers' recommended method of installation.

1.2 System Description

As manufactured by AMICO Security, Security Mesh™ shall be made from a sheet of steel that is simultaneously slit and stretched into a rigid and open continuous sheet that cannot unravel. The finished shape of the mesh openings shall be a flattened diamond. Conventional expanded metal not manufactured specifically for security purposes is NOT acceptable for this use. Security Mesh™ shall be attached to framing members by using AMICO Secura Clip™ fasteners following the manufacturers recommended spacing.

1.3 References

All components and parts in this specification shall meet or exceed current standards and specifications as designated by the American Society for Testing and Materials and shall be certified Security Mesh™ per ASTM F1267, Type 2, Class 1 mill finish. Underwriters Laboratories Fire Rated Assembles (per U/L subject File #1857) will not be jeopardized by using AMICO's Security Mesh™ in the fire rated assembly.

1.4 Submittal

The manufacturers' submittal information shall include brochures, details and specifications and samples.

1.5 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 freight bill and contact manufacturer immediately.

PART 2 MATERIALS

2.1 Manufacturer

Amico Security, 3245 Fayette Avenue, Birmingham, AL 35208, Email: securitymesh@amicosecurity.com, Web: amicosecurity.com, Telephone, Toll Free: 855-552-6426

2.2 Materials

A. AMICO SECURITY MESH – ASM 1.5 –9F MEDIUM SECURITY.

The Security Mesh™ used shall conform to the following specification: Carbon steel – meet or exceed ASTM A-1011.

1. Width of panel – 4ft (1,219mm) Also produced in 5ft (1,524mm) and 6ft (1,829mm) widths
2. Length of panel – 8ft (2,438mm) Also produced in 10ft (3,048mm) and 12ft (3,658mm) lengths
3. Mesh diamond width – 1.330in (33.78mm) x 3.200in (81.3mm) long bond to bond with 9 diamonds per 12in (304.8mm) of width
4. Mesh size opening – width 1.000in (25.4mm) x 2.653in (67.39mm) long allowing 76% open area
5. Mesh strand width – 0.158in (4.01mm)
6. Mesh strand thickness – 0.108in (2.74mm)
7. Weight – 1.05 lbs/sf² (5.12 kg/m²)
8. Security Mesh is produced by AMICO Security

Tolerances: SWD = -0 + 0.25in (6.4mm) per 12in (304.8mm) of dimension LWD = -0 + 0.25in (6.4mm) per 12in (304.8mm) of dimension

Scale shown 1:1

B. AMICO SECURA CLIPS

Security Mesh™ shall be attached to framing members using AMICO Secura Clip™ fasteners and the appropriate threaded fasteners. Welding is an acceptable means of attachment. Flat bugle head self-tapping screws long enough to penetrate steel framing by a minimum 3/8in (9.5mm). For wood framing applications use 1-5/8-in (41mm) fine thread drywall screw allowing the fastener to penetrate the framing member at least 1-1/2in (38.1mm). Install Secura Clip™ fasteners, at a minimum, on 12in (304.8mm) centers per framing member. Secura Clip™ fasteners are the manufacturer's preferred method of securing mesh panels to framing.

C. Finish

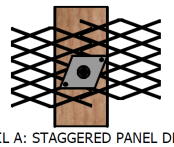
Security Mesh is supplied "mill finish" HR P&O. No sealers or galvanizing is required for typical applications. In some very unique situations stainless steel or hot dip galvanized Security Mesh can be supplied. For information concerning specific applications, please call 855-552-6426.

PART 3 INSTALLATION

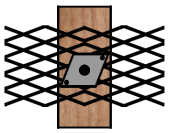
3.1 Installation

Framing members should be no less than 20GA. Security Mesh panels may be installed with diamonds running in either direction. It is preferred to have mesh joints either join staggered (Detail A) or butt together (Detail B). It is also acceptable to overlap mesh joints with the owner's prior written approval. Panels shall join on framing members. If panels join in between framing members, in any direction, adjoining panels shall be tied with 18GA tie wire at the same frequency as clips or welding.

NOTE: BOTH PANEL JOINT DETAILS ARE ACCEPTABLE METHODS.



DETAIL A: STAGGERED PANEL DETAIL



DETAIL B: BUTT JOINTED PANEL DETAIL