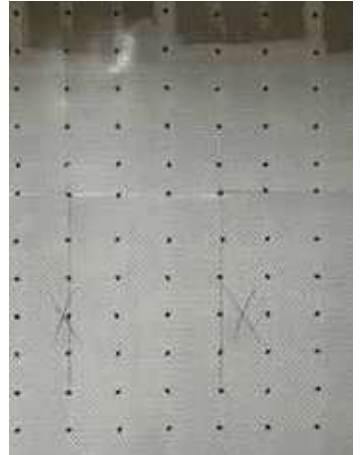


# AMICO SECURITY MESH™



# PENETRATION BARRIER BEHIND DRYWALL



Before and After AMICO Security Mesh™ Installation

# AMICO SECURITY MESH™



Security Mesh™ was developed and introduced by AMICO in the late 1980s as a penetration barrier for use behind drywall finishes. In 2002, AMICO patented the Secura Clip®, making a system that designers and security professionals can count on to provide the highest levels of physical security.



AMICO Security Mesh has been installed for decades in government, commercial, and retail buildings all over the world. AMICO's patented Secura Clips® complete the system. Secura Clip® fasteners have a recessed center hole allowing the Tek screw to seat at the surface of the mesh and not create humps and bumps alerting intruders to the penetration barrier. Secura Clip® fasteners provide over 68% more holding strength than standard screws alone.

Drywall is installed directly over Security Mesh™. No need for other materials for added intrusion protection. AMICO has supplied numerous projects requiring mesh to be attached to both sides of the framing members.

Product

ASM .75-9F HM SUPER MAX  
SECURITY IN OPTIONAL  
HOT DIPPED GALVANIZED  
FINISH INSTALLED AT  
DATA CENTER



## MESH SELECTION

AMICO offers Minimum, Medium, Maximum and Heavy Modified Super Max Security mesh panels. The style of mesh can be determined by the overall level of security for the facility and other conditions such as response time by security or law enforcement. In general the overall mesh thickness and the size of the diamond opening determine the security level. ASM 2322-1003, the most secure Security Mesh, passes ASTM F2322 Standard Test Methods for Physical Assault on Vertical Fixed Barriers for Detention and Correctional Facilities at Grade 1, the highest level, Grade 2, Grade 3 and Grade 4.

## MESH FINISH

Security Mesh is supplied in a Mill Finish (HR P&O - Hot Rolled Pickled & Oiled) as standard. For special applications such as installation adjacent to shower or kitchen areas, Hot dip galvanized is available upon request.

## FRAMING

Generally, vertical framing members are set 16-inches on center. Horizontal ceiling members are set 16 to 24-inches on center. As the requirements for higher levels of security arise the spacing of vertical framing can be reduced to 12-inches on center. 12-inch stud spacing is frequently specified with the ASM .75-9F Heavy Modified. The ASM 2322-1003 and ASM 2322-4003 Corrections panels have specific requirements to qualify for ASTM F2322 certification.

## SECURA CLIP® FASTENERS

For best performance AMICO Secura Clip® fasteners need to be used. Install clips to metal framing using bugle head self-tapping screws penetrating the framing member a minimum of 3/8-inch. With wood framing use 1-5/8-inch drywall screws allowing the fastener to penetrate framing a minimum of 1-1/2-inches. Standard spacing is 12-inches vertically per framing member for both vertical and horizontal surfaces.

Top to Bottom, Left to Right

ASM 2322-1003  
CORRECTIONS,

ASM .75-9F HM SUPER  
MAX SECURITY,

ASM .75-9F MAXIMUM  
SECURITY,

ASM .50-13F  
MAXIMUM SECURITY,

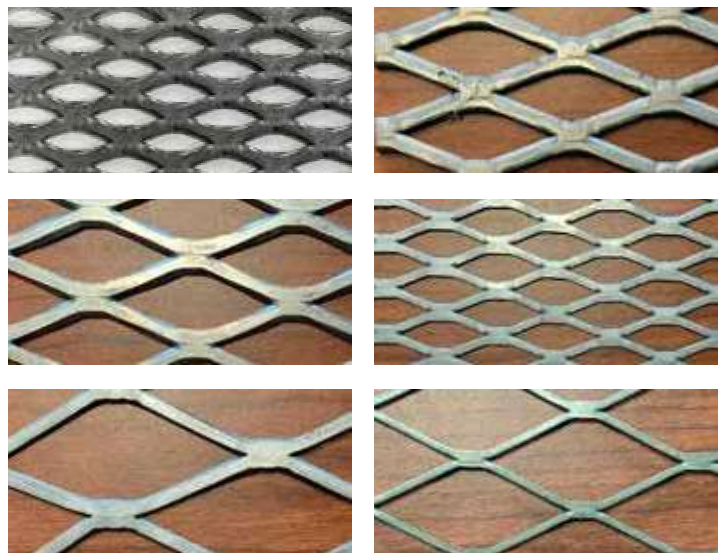
ASM 1.5-9F MEDIUM  
SECURITY,

ASM 1.0-16F  
MINIMUM SECURITY

AMICO SECURITY MESH	Weight per sq. ft.	Overall Thickness	Diamond Hole Opening
ASM .75-9F HM	2.38 lbs	.140"	0.6" x 1.7"
ASM .75-9F	1.57 lbs	.108"	0.6" x 1.7"
ASM .50-13F	1.26 lbs	.072"	0.3" x 1.0"
ASM 1.5-9F	1.05 lbs	.108"	1.0" x 2.7"
ASM .50-16F	.77 lbs	.048"	0.3" x 1.0"
ASM .75-13F	.67 lbs	.072"	0.7" x 1.8"
ASM 1.5-13F	.51 lbs	.072"	1.1" x 2.8"
ASM .75-16F	.47 lbs	.048"	0.8" x 1.8"
ASM 1.0-16F	.38 lbs	.048"	0.8" x 2.2"
ASM 1.5-16F	.35 lbs	.048"	1.1" x 2.8"

\*ASM 2322-1003 passes ASTM F2322 Standard Test Methods for Physical Assault on Vertical Fixed Barriers for Detention and Correctional Facilities at Grade 1, the highest level, Grade 2 and Grade 3. ASM 2322-4003 passes ASTM F2322 at Grade 4.

Tolerances: Short Way of Diamond (SWD) & Long Way of Diamond (LWD) 0+ 0.25" per 12" of width. Panel sizes: 4' x 8' standard, other sizes are available upon request.



# AMICO SECURITY MESH™

## ASTM F2322 PHYSICAL ASSAULT TESTING

The AMICO Security Mesh™ ASM 2322 product line passes the ASTM F2322 Standard Test Methods for Physical Assault on Vertical Fixed Barriers for Detention and Correctional Facilities.

These test methods cover requirements for a simulated physical assault on walls designed to incarcerate inmates in detention and correctional institutions. It is the intent of these test methods to help ensure that detention security walls perform at or above minimum acceptable levels to control passage of unauthorized contraband or secure areas, to confine inmates, to delay and frustrate escape attempts, and to resist vandalism.

While the test method is primarily designed for prison walls the performance criteria apply to many other security applications as well.



Grade #	ASM Mesh available*	Number of Impacts**	Representative Barrier Duration Time
1	ASM 2322-1003	600	60 minutes
2	ASM 2322-1003	400	40 minutes
3	ASM 2322-1003	200	20 minutes
4	ASM 2322-1003 ASM 2322-4003	100	10 minutes

TABLE SECURITY GRADES AND IMPACT LOAD REQUIREMENTS

\*Results only apply when installed on metal studs using Secura Clip® supplied by AMICO Security.

\*\*Number of impacts equally divided between 80lbs blunt impactor and 80lbs sharp impactor, applied in alternating sequences of 50 impacts each.



Product  
**AMICO SECURITY MESH™**  
**AT TEST TERMINATION**  
**AFTER 600 IMPACTS**  
**ACHIEVING GRADE I**



## COMMERCIAL PROPERTY

Commercial malls and standalone stores in strip malls are a great application for AMICO Security Mesh™. While storefronts are often secured by shutters, the walls on the side and back of the stores are often simple drywalls. Break-ins frequently occur through those walls since they often border hallways or less secure stores.

- Banks and Credit Unions
- Cellphone, Jewelry and Electronics Stores
- Data Centers & High Value Storage Facilities



## CANNABIS INDUSTRY

The cannabis and recreational drug industry faces many security challenges. Security Mesh™ is ideal to increase the security of walls and to increase security of storage rooms within those facilities.

## DATA CENTERS

AMICO Security Mesh™ enhances security to Data Centers and high value storage facilities by significantly increasing the breach times compared to traditional walls. Since attackers are not aware of the presence of Security Mesh™, they often give up upon encountering Security Mesh™. Also the additional time required to breach walls fitted with Security Mesh™ increases the time for law enforcement to respond.



## DETENTION AND CORRECTIONAL FACILITIES

AMICO Security Mesh™ has many applications in Detention and Correctional Facilities and other facilities with high security needs for example metal hospitals. The ASTM F2322 Grade I certified ASM 2322-1003 Corrections mesh offers architects a wide range of new design options as it is tested to offer equivalent physical assault protection compared to Concrete Masonry Unit (CMU) walls. With a wide range from the ASM 2322-1003 Corrections mesh to minimum level meshes, AMICO Security Mesh™ can be specified according to specific security needs. For example a lower security level mesh might be acceptable in public lobbies.