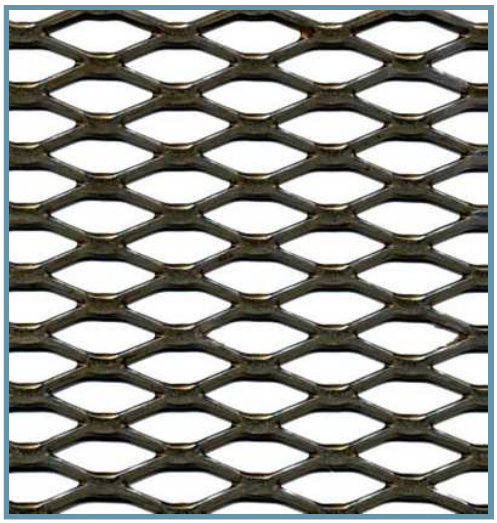
Barrier Mesh™ for Security (BM50)

High-strength expanded metal mesh for walls and ceilings

Barrier Mesh™ is a tough, rigid, heavy-gauge steel mesh installed typically onto stud framing (both metal and wood), with gypsum sheathing applied to its surface to conceal the barrier mesh, thereby providing a significant barrier to security breach across that wall system. ClarkDietrich Building Systems' Barrier Mesh™ (BM) can also be used without sheathing to provide an enhanced protection of security to walls, ceilings as well as floors. Barrier Mesh™ is produced in different size diamonds and gauges for minimum, medium or maximum security protection.

In addition to providing high-strength and fire-resistant protection, Barrier Mesh™ also offers a cost effective and time-saving alternative to reinforced concrete or concrete masonry systems. The Barrier Mesh™ System is designed to attach to metal or wood stud framing, with specially designed Barrier Mesh™ clips, purchased with the Barrier Mesh and shipped together, as a system. ClarkDietrich mesh sheets are 4'x 8' and sizes in chart below; special order mesh sizes available upon requests with additional lead-time.

Projects uses:
Correctional facilities, government offices, retail stores, computer rooms, airport security, law enforcement facilities, military facilities or any space that requires substantial barrier protection.



- Protects against break-ins and break-outs on metal stud framing
- Ideal for use in lieu of reinforced concrete or concrete block
- High-strength and fire-resistant
- Made from carbon steel
- Permitted for use in UL - Wall Assemblies

Product Data & Ordering Information:

Material: Type II, Class 1 - Carbon Steel - Mesh, Complying to ASTM F1267 & A1011
(Type II, Class 2 - Galvanized available by special order)
Expanded Metal Manufacturers Association - EMMA 557-20

Sheet Size: 48" x 96" (Tolerance -0, +1/4" / foot of dimension, length & width

Product Code	Nom. Gauge	Overall Thickness	Diamond	Bond Size Center-to-Center	Weight lbs/100 sq ft	% of Open Area
BM50	18*	.038"	1/2"	.500" x 1.26"	61	61
BM50	16	.048"	1/2"	.500" x 1.26"	77	61
BM50	13	.072"	1/2"	.500" x 1.26"	126	57

*18ga not available in Class 3 - Stainless Steel

Code Approvals & Performance Standards

- ASTM A1011 Standard Specification for Structural Steel
- ASTM F1267 Standard Specification for Metal, Expanded, Steel
- NAAMM EMMA 557-20 Standards for Expanded Metal
- UL File Number R19331 Full list of ProSTUD, Spazzer, Resilient Channel, Sound Clip and Barrier Mesh UL design assemblies
- SDS Barrier Mesh Carbon Steel Mesh

Storage:

All stored materials shall be kept dry. Materials shall be stacked off the ground, supported on a level platform, and protected from the weather and surface contamination.

Installation Method:

BM-Clips are not recommended for use with Barrier Mesh size BM50 (1/2-inch diamond). Use flat-head or truss-head screws with the BM50 size panels, which will secure the mesh to the studs at an even, or level plane. If planning to weld the Mesh to framing, please contact ClarkDietrich for specific installation instructions.

Sustainability Credits For more details and LEED letters contact Technical Services at 888-437-3244 or visit clarkdietrich.com/LEED.

- **LEED v4.1 MR Credit:** Environmental Product Declarations: EPD (1 point) - Sourcing of Raw Materials (up to 2 points) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points)
- **LEED v4 MR Credit:** Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).