**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.

**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 557-15  
Sheet Size: 48” x 96” (Tolerance -0, +1/4: / foot of dimension, length & width

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Nom. Gauge</th>
<th>Overall Thickness</th>
<th>Diamond Center-to-Center</th>
<th>Weight lbs/100 sq ft</th>
<th>% Of Open Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM50</td>
<td>18</td>
<td>.038”</td>
<td>1/2”</td>
<td>.500” x 1.26”</td>
<td>61</td>
</tr>
<tr>
<td>BM50</td>
<td>16</td>
<td>.048”</td>
<td>1/2”</td>
<td>.500” x 1.26”</td>
<td>77</td>
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<tr>
<td>BM50</td>
<td>13</td>
<td>.072”</td>
<td>1/2”</td>
<td>.500” x 1.26”</td>
<td>126</td>
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</tbody>
</table>

*18ga not available in Class 3 - Stainless Steel

**ASTM & Code Standards:**

- ASTM F1267 - Standard Specification for Metal, Expanded, Steel (Type II, Class 1 - Carbon Steel, Type II, Class 2 - Galvanized, Type II, *Class 3 - Stainless Steel)  
- ASTM A1011/A1011M - Standard Specification for Steel Sheet Hot-Rolled, High-Strength Low-Alloy Carbon  
- Permitted for use in UL - Wall Assemblies

**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.

**Sustainability Credits:**

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED  
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).  
LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)