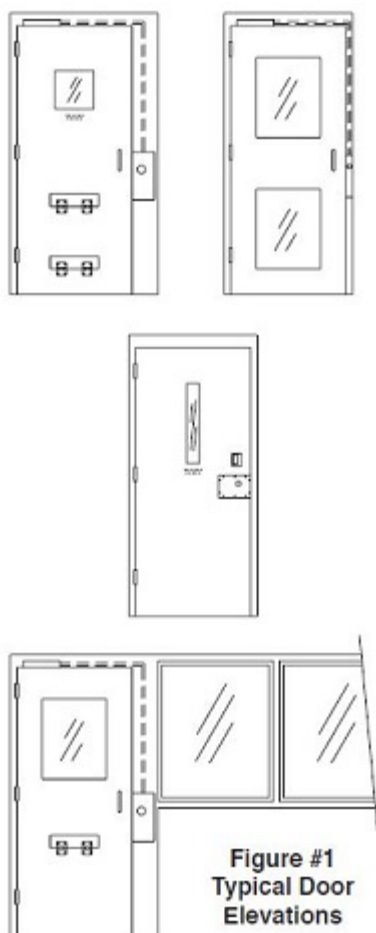


View this email [in your browser](#).

National Association of Architectural Metal Manufacturers



## Detention Hollow Metal Exceeds the Bar



### HOLLOW METAL VERSUS BAR-GRILLE CONSTRUCTION

Bar-grille assemblies are manufactured by a variety of methods, however, regardless of the method used, the end result must be an assembly, which has been “hardened” against attack or tampering. By its design, bar-grille allows access by the inmate to the outside of the enclosure and thereby access to lock and position switch encasement, as well as conduit casements. Also, the bars themselves must be made resistant against tool attack, again because they are accessible to the inmate. The security of bar-grille assemblies is accomplished by various means depending upon the manufacturer’s philosophy and methods; however, the bottom line is that the heavy material, heat treating processes, and assembly processes necessary are expensive.

On the other hand, consider typical detention hollow metal assemblies as shown in Figure 1. The frame is fabricated of pressed steel sections with integral doorstops and is fully grouted after installation. It is prepared for the appropriate

security hardware including conduit routed internally, junction boxes and access openings with cover plates as necessary for wiring installations. The door can be a typical detention security type, prepared for security hinges, electrical or mechanical detention security lock, and position switch indicator. The door preparation can include conduit routed internally to suit electrically operated hardware when applicable. When confined, the inmate has no access to the outside of the enclosure because there are no grille openings except where desired in the design. This means that security can be obtained by limited

accessibility to sensitive areas of the opening such as locks, hinges and position indicators. Heat treatment is not required for the steel used in the detention hollow metal construction. Because of the materials and manufacturing processes used, the hollow metal construction costs in most cases are considered economical.

Refer to [HMMA-863-14 Guide Specifications for Detention Security Hollow Metal Doors and Frames](#).

---

## Architect Design Versatility with Hollow Metal Forced Entry/Bullet Resistance Openings



### DESIGN VERSATILITY

FE/BR hollow metal construction provides the Architect with a great deal of freedom in the design of hollow metal products. The Architect can also take advantage of the expertise acquired by those hollow metal manufacturers experienced in FE/BR security work. Over the years NAAMM/HMMA manufacturers have developed advanced methods and equipment enabling them to efficiently manufacture hollow metal assemblies, which address today's difficult FE/BR security applications. These applications include working with the latest in burglary and bullet resisting hardware and security glazing. A number of these manufacturers offer proven economical and functional designs of FE/BR security hollow metal systems.

Refer to [HMMA-862-21 Guide Specifications for Forced Entry/Bullet Resistant \(FE/BR\) Security Hollow Metal Doors and Frames](#).

---

**Click Here to Find a Hollow Metal Manufacturer for Your Hollow Metal Needs!**

National Association of Architectural Metal Manufacturers



© 2022 National Association of Architectural Metal Manufacturers. All Rights Reserved

800 Roosevelt Rd. Bldg. C, Suite 312

Glen Ellyn, IL 60137

(630) 942-6591 phone

(630) 790-3095 fax

[www.naamm.org](http://www.naamm.org)

[info@naamm.org](mailto:info@naamm.org)

[Unsubscribe](#)

