



**NILES FENCE & SECURITY
PRODUCTS, LLC.**

SECUREX EXPANDED METAL SECURITY CAGES

Type 1 – New Cage

6'-12' High System

Mesh specifications – ½" - #13R, ¾" - #9R, 1-1/2" - #9

Standard Security Cage Framework – 2" x 2" x 14 gauge square posts welded to ¼" steel flat base plates punched to accept two 3/8" diameter anchors. Corner, line, 3-way and door posts are predrilled to accept hardware for hanging framed expanded metal panels. Adjustable corner posts use welded butt hinges to connect panels in directions other than 90 degrees. Cage panel framework is welded 1-1/4" x 1-1/4" x 1/8" hot rolled angle with slotted holes punched approximately 24" on center. Panels include ¼" x ¾" hot rolled stiffener bar welded to expanded metal mesh and frame for additional security.

Expanded metal cage panels – Standard 8' high enclosures are assembled using 4'h x 8'w panels horizontally stacked. Panels can be stacked horizontally to a maximum of 30'. Optional panel orientation is available 4' or 5' wide by 6' to 12' high. Panels are constructed of 1-1/4" x 1-1/4" x 1/8" hot rolled angle frames with high security expanded metal welded into the angle. All panel-to-panel, and panel/door-to-post connections are made with 5/16" flanged hex head bolts and nuts. Panels are available galvanized for outdoor use or powder coated.

Security Cage Doors and Hardware – (Hinge or Slide) – All doors are constructed of the same materials as the panels and deliver with all necessary mounting hardware. On hinge doors, a total of three, 3" x 3" butt hinges are attached to adjacent post and door frame. Hinge doors can be locked with padlock or cylinder lock. Sliding doors include two 2-wheel trolleys rolling in an enclosed track.

Security Cage Service Windows – (Slide or Folding) – Window panels are constructed of the same materials as the panels. Sliding windows measure 24"w x 21-1/2"h and include a shelf centered in opening. Fold down windows panels 24"w x 15"h and include a sheet metal shelf hinged at the bottom.

Security Cage Ceilings – Ceiling panels are constructed of the same materials above. Ceiling panels are attached to floor panels with a perimeter piece of angle iron measuring 1-1/2" x 1-1/2" x 14 gauge steel. Additional wall supports and beam supports and beam support posts are added to help lock panels into place.

Flex panels (when required for project special purposes) – Two, 8' x 16ga solid sheet steel panels are used to fill in small areas where standard spacing is not applicable.

Basic Installation Instructions - Begin installation with a line post attached to both the wall and floor with 3/8" anchors. Follow with the first bottom panel set 3-1/4" from floor to establish standard sweep spacing. Then, alternately install the posts and the bottom panels of the cage using 5/16" bolts to lock panel and posts together. Freestanding cage framework can be installed starting at any corner or door post. Please see detailed drawings for additional information on installing ceilings, doors, flex panels and service windows.