



SECUREX INFRASTRUCTURE EXPANDED METAL FENCE SYSTEM NILES FENCE – SECURITY BASIC

Type 1 – New Fence

Basic Installation Specifications

8ft high – 2 Rail

Mesh specifications – ½”-13R , ½”- #13R(.188), ¾”-9R, ¾”-9F, 1”- #7(.240), 1-1/2”- #6

Fence Framework – 3” OD Schedule 40/SS40 line posts set 93”-117 ” O.C. Each fence post will 3” pressed steel dome cap to seal out moisture. 8 ft high fences will have a minimum of 2 horizontal rails. Fences 10 ft. high or taller will have additional support rails evenly spaced. Fence top and bottom horizontal line rails consist of 1-5/8" x 1-5/8" x 12 ga steel channel installed using 3” Securex bands with 1” square washers. Fence top and bottom rail is to be installed 3-8” from top or bottom edge of mesh and should be equal. Mid rails are installed evenly spaced between top and bottom rails.

Fence Terminal Posts (end and corner) – Fence line rails will attach to 4” OD Schedule 40/SS40 end posts with 4” Securex bands. Expanded metal mesh will attach to terminal posts with Securex end tensioner assemblies spaced evenly max 18” per post. Corner posts will attach line rails to framework with 4”bands. Fence terminal posts will have matching dimension pressed steel dome cap. Expanded metal mesh will fit flush to post or overlap max of 2” to eliminate open space.

Securex Expanded Metal Mesh – Galvanized expanded metal mesh material will be zinc coated hot dip galvanized per ASTM A123. If color coated mesh is required coating will meet specifications per ASTM 1043-06. Expanded metal mesh will overlap up to 3 diamonds or 3 inches (depending on diamond size) at line posts except where adjustment is needed to follow contour of terrain. Expanded metal mesh shall be installed flush and/or overlap the fence end post a maximum of 2”. Mid section mesh joins will be with vertically installed Securex bar clamps. Mesh panels shall have no more than 1” space between bottom of mesh and grade.

Securex Fittings – Mesh is connected to line post fence framework using 3” Securex c-clamp and Securex bar clamp. Install c-clamps evenly spaced every 12”-18” along line post. Mesh is attached to the line rails using Securex latch clamps and u-washers through the slotted channel rails at a max of 18” per panel. Securex latch clamps are also added at each post clamp set/line rail assembly point. Mesh is connected to fence terminal posts with 4” Securex end tensioners, latch clamps and u-washers. If, due to terrain or spacing requirements, mesh overlaps at a position that does not coincide with a line post, expanded metal mesh is joined using Securex bar clamps vertically positioned and evenly spaced.

Fence Fasteners/Bolts- The Securex system recommends the use of stainless steel square shoulder carriage bolts with stainless steel breakaway nuts. Alternatively, the Securex system can be installed with standard carriage bolts tightened securely then peened to prevent removal.