



SECUREX DIAMOND EXPANDED METAL FENCE SYSTEM

Basic Installation Specifications

Type 1 – New Fence

6' High – 2 rail system

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

Fence Framework – 2 ½" OD SS40 line posts set 93" – 117" O.C. Each fence post will have a 2 1/2" pressed steel dome cap to seal out moisture. The 6 ft high fence system will have a minimum of 2 horizontal rails. Top and bottom horizontal fence line rails consist of 1-5/8" x 13/16" x 14 ga steel channel installed using 2 ½" 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.

Terminal Fence Posts (end and corner) – 3" OD SS40 posts will attach to remaining fence framework with 3" bands. Corner posts will attach to line rails with 3" post clamp sets or 3" bands. Expanded metal mesh will attach to terminal fence posts with a total of 3, 3" Securex end tensioners spaced evenly between top and bottom fence post at a max of 18" per post. Terminal fence posts will have 3" 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 fence 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". Expanded metal mesh panels shall have no more than 1" space between bottom of mesh and grade.

Fence Fittings – Expanded metal mesh is connected to line post fence framework using 2 ½" Securex c-clamp and bar clamp. Install 3 c-clamps evenly spaced at a max of 18" between fence line rails along the line post. Expanded metal mesh is attached to fence line rails using Securex latch clamps and u-washers through the slotted channel rails at a max of 18" per panel (approx. 6 per line rail). Securex fence latch clamps are also added at each end tensioner, terminal post assembly point. Mesh is connected to fence terminal posts with 3" Securex end tensioners, latch clamps and u-washers. If, due to terrain or spacing requirements, expanded metal mesh overlaps at a position that does not coincide with a line post, mesh is joined using Securex bar clamps vertically positioned and evenly spaced.

Fence Fasteners/Bolts- The Securex fence system recommends the use of stainless steel square shoulder carriage bolts with stainless steel breakaway nuts. Carriage bolt sizes are 5/16" x 2" for most mesh sizes. Alternatively, the Securex fence system can be installed with standard carriage bolts tightened securely then peened to prevent removal.