



SECUREX DIAMOND EXPANDED METAL FENCE SYSTEM

Basic Installation Specifications

Type 1 – New Fence

6' High – 3 rail system

Mesh Specification – 1/2" - #13R, 3/4" - #9R, 3/4" - #9F, 1-1/2" - #9, 2" - #9

Framework – 2 1/2" OD SS40 line posts set 93" – 117" OC. Each fence post will have a 2 1/2" pressed steel dome cap to seal out moisture. This expanded metal 6 ft high fence system will have a minimum of 3 horizontal rails. Top and bottom horizontal line rails consist of 1-5/8" x 13/16" x 14 ga steel channel installed using 2 1/2" 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) – 3" OD SS40 posts will attach to remaining fence framework with 3" bands. Corner posts will attach to fence line rails with 3" post clamp sets or 3" bands. Expanded metal mesh will attach to fence terminal posts with a total of 2, 3" Securex end tensioners spaced evenly between top, bottom and mid rail along fence post at a max of 18" per post. Terminal 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 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". Mesh panels shall have no more than 1" space between bottom of mesh and grade.

Fence Fittings – Expanded metal mesh is connected to fence line post framework using 2 1/2" Securex c-clamp and bar clamp. Install 2 c-clamps evenly spaced at a max of 18" between rails along the line post. Mesh is attached to line rails using Securex latch clamps and u-washers through the slotted channel rails at a max of 18" per panel (approx. 6 per rail). Securex latch clamps are also added at each end tensioner, terminal post assembly point. Expanded metal mesh is connected to terminal fence posts with 3" 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 fence system recommends the use of stainless steel square shoulder carriage bolts with stainless steel breakaway nuts. Carriage bolt are 5/16" x 2" for most mesh sizes. Alternatively, the Securex expanded metal fence system can be installed with standard carriage bolts tightened securely then peened to prevent removal.