

GeoLock® Wall Anchor System Technical Specifications

Plate Steel:

ASTM A1011 C1008-C1010, 10 gauge plate
embossed with two (2) longitudinal ribs

Wall Plates:

Two sizes: 12" x 18" and 12" x 28"

Earth Plates:

Fabricated from two wall plates
welded in a cross pattern

One inch on each end of wall plates
is bent 90 degrees

Three sizes: 16" x 16", 16" x 26", and 26" x 26"

All-Thread Rod:

Medium Carbon Steel

80" long (assembly consists of two rods)

$\frac{3}{4}$ - 10 UNC 2A

Tensile strength = 85 ksi (min.)

Allowable tensile capacity = 14 kips

Rod Coupler:

3" long x 0.984" diameter, AISI 1144

$\frac{3}{4}$ - 10 UNC 2B, oversized tap

Yield strength = 100 ksi (min.)

Tensile strength = 115 ksi (min.)

Termination Hardware:

SAE J995 Grade 2 heavy square nuts

$\frac{3}{4}$ - 10 UNC 2B, oversized tap

Hemispherical Washer:

Two-piece machined steel washer

ASTM A108 Grade 1018 or 1215

Yield strength = 54 ksi (min.)

Tensile strength = 64 ksi (min.)

$\text{Ø}2.00$ " x 0.70" assembled

Bright electrozinc coating per ASTM B633

Finish:

Unless noted otherwise, all components are
hot-dip galvanized in accordance with ASTM
A123 or ASTM A153

Alternate Wall Bracing Detail:

C6 x 8.2 steel channel, ASTM A36

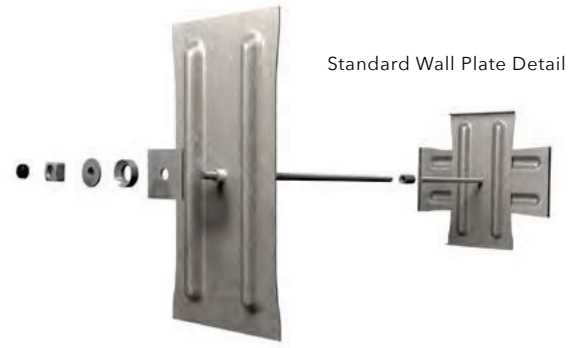
Channel secured at base with steel bracket

or cast into concrete. Bracket is

3.75" x 1.75" x 0.25" thick x 4.5" long bent plate,

ASTM A36, with (2) $\text{Ø}0.625$ " holes.

(2) $\text{Ø}1/2$ " x 3" concrete screw anchors⁽³⁾



- (1) Installation of any tieback or anchor system in potential landslide or hillside creep soils should be designed by a professional engineer.
- (2) Refer to *Section 3.2.2* of the Foundation Supportworks Technical Manual for recommendations on anchor spacing, depth and location of earth plate, and installation torque.
- (3) Concrete slab should be intact and have a thickness of at least 3.5". For broken or thin slabs, contact Foundation Supportworks for alternative installation guidelines.