

WHAT TYPE OF FOOTING IS REQUIRED FOR EP HENRY WALL SYSTEMS?

A compacted stone base is required for all segmental retaining walls. EP Henry recommends 6" of dense graded aggregate for this purpose. Generally, the higher the wall, the thicker the base. You do not have to dig down below the frost line.

Please reference installation guides for specific recommendations on the base course for each wall system.

HOW TALL CAN I BUILD MY SEGMENTAL RETAINING WALL?

Height limitations without geogrid for all of our retaining wall products are listed within the catalog on the corresponding product pages. Designed and installed properly, segmental retaining walls can be built in excess of 50' high.

WHAT IS GEOGRID?

Similar in concept to a "dead man" used in the construction of railroad tie walls, geogrid stabilizes the soil mass behind the retaining wall and ties the wall face to the earth being retained. Typically made of polyester or HDPE, geogrids — such as Miraf® 3XT — are open-celled, directional fabrics that are placed between the layers of block at different intervals. Geogrids are then laid out perpendicular to the wall face in the compacted soil behind the wall. The height of the wall being constructed, the soil properties, and any pressure on the wall (e.g., slopes, structures, paved areas) all affect the length and placement of the geogrid. Additional information is available from EP Henry or a professional engineer.

WHAT DO I USE TO BACKFILL MY WALL?

The first 12" behind the wall should be backfilled with 3/4" clean stone to help relieve any hydrostatic pressure that might build up. The area directly behind the stone should be compacted soil. Use the same stone to fill the cores of Terrace Wall™, StoneWall® Select®, Diamond Pro®, Vertica® Wall, Coventry® Wall Plus, and Mesa® Wall.

I NEED STEPS IN MY RETAINING WALL. WHAT CAN I DO?

All EP Henry retaining wall products can be used to build steps. The wall units are used for

the riser and the caps for the treads (Bullnose Pavers can also be used for treads). Make sure you pay attention to local codes that dictate the minimum step height, tread depth, and hand rail requirements.

Note: Use of the EP Henry Filler Block to core fill steps will provide strength and stability to the step construction. The filler block is compatible with all 6" and 8" tall units.

SHOULD I USE A CORRUGATED PLASTIC PIPE (DRAIN TILE) BEHIND MY WALL TO DRAIN WATER AWAY?

Due to their mortarless construction, segmental retaining walls will naturally "weep" to relieve any hydrostatic pressure that builds up behind the wall.

As a rule of thumb, however, it's a good idea to use a drain tile directly behind the wall units at grade level for all wall applications.

HOW DO I MAKE 90 DEGREE CORNERS WITH EP HENRY SEGMENTAL WALL SYSTEMS?

Corner blocks with the rockface on two sides are available for the Terrace Wall, Coventry Wall, Tudor Wall, Double Sided Tudor Wall, Coventry Wall III, Stacked Stone, Double Sided Coventry Wall, Rustic Double Face Wall, Diamond Pro, Mesa Wall, Vertica Wall, and StoneWall SELECT systems. They are used for either left- or right-hand corners and are set in place with concrete adhesive.

CAN I MAKE A CURVED WALL WITH EP HENRY WALL SYSTEMS?

One of the many advantages over a railroad tie wall is that walls, with either inside or outside curves, can be built with all EP Henry wall systems. Blocks with tapered sides are used for outside curves, and inside curves can be created by placing the front corners together and gapping the units in the back.

WHAT DO I USE TO ADHERE THE CAPS ON MY RETAINING WALL?

Use a high strength, flexible concrete adhesive, such as Paver Bond®, to affix your wall cap.

WHAT IF I WANT TO BUILD A FREESTANDING WALL?

No Problem! EP Henry offers five creative options for walls that are functional and look great: Double Sided Coventry® Wall, Double Sided Tudor Wall™, Rustic Double Face Wall, Coventry® Wall III, and Double Sided Cast Stone Wall. Available in various heights and lengths, they are perfect for wing walls, knee walls, sitting areas, and more.

WHEN SHOULD I INVOLVE AN ENGINEER IN THE DESIGN OF MY WALL?

Use of a Professional Engineer is recommended on projects with taller walls (above 4') or with unusual site conditions (steep slopes, parking lot, structure behind the wall, or tiered wall). Local building codes may also necessitate the use of a professional engineer for walls above a certain height. Check with the local code officials before starting construction.

We can provide design charts and tables with generalized engineering solutions for some of our retaining wall systems. Each situation is unique, however, and specific evaluation will provide the most accurate solution.

WHAT ARE TIERED WALLS AND HOW DO I PLAN FOR THEM?

Tiered walls are two or more walls placed in a multi-level arrangement. The second wall should be located behind the first wall at a distance of at least twice the height of the first wall under ideal soil conditions (e.g., if the front wall is 3' high, the second wall should be at least 6' behind it).

Note: Consult a Professional Engineer.

EP Henry offers an extensive library of technical and construction information at ephenry.com/technical.

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