



### SafeBase Wall Anchor Installation Procedure



Placement of the wall anchor is determined using careful measurements both inside and outside of the home.



Small holes are drilled through the basement block.



Anchor rods are driven through the block wall and into the soil outside.



Earth plate is driven into the ground until it meets the anchor rod.



Wall plate is attached to the anchor rod inside the basement.



Ball and Socket assemblies are installed and tightened to torque specification.



### Wall Anchor System



Engineered Foundation Repair Products for Residential & Commercial

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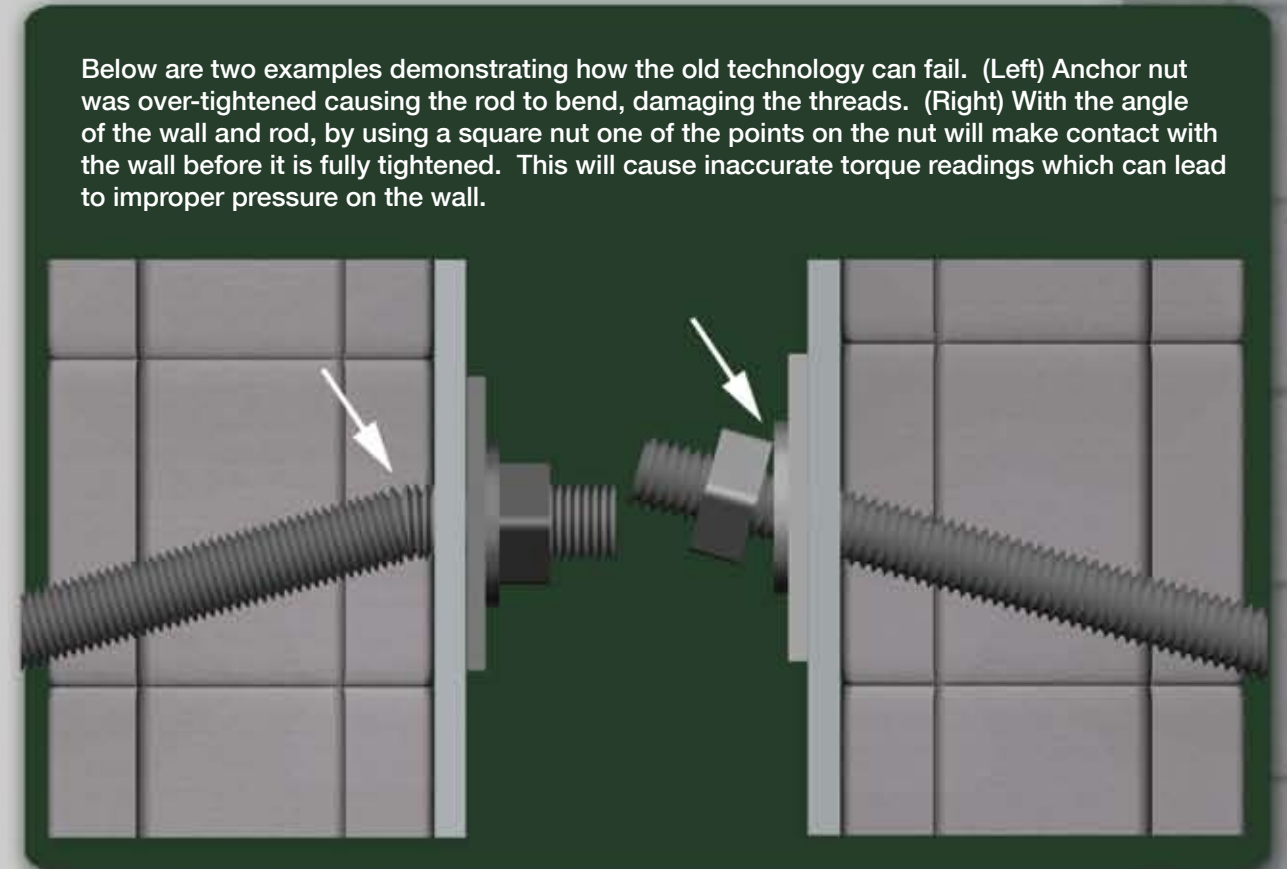
## Patent Pending SafeBase™ Wall Anchor System



The patent pending SafeBase Wall Anchor system is the only system to drive the earth anchor into virgin unexcavated soil. Our tested and engineered anchor system allows us to use a larger anchor for greater holding capacity.



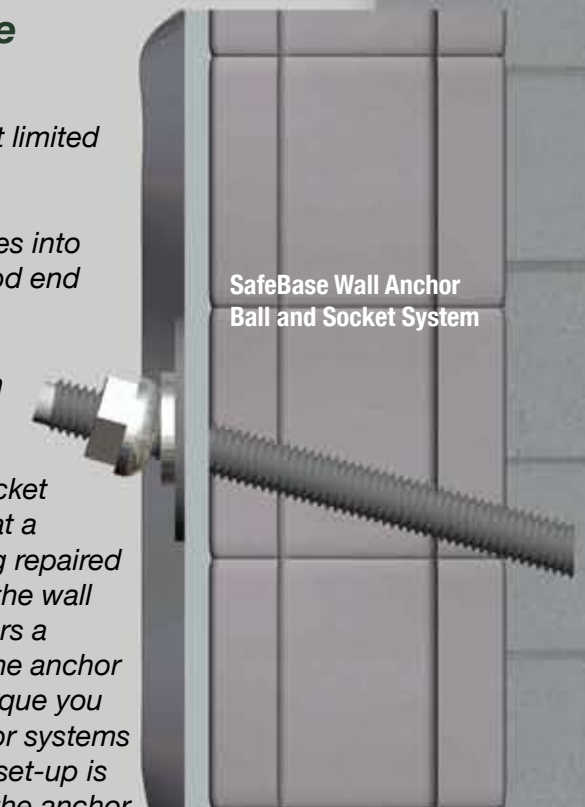
The purpose of the wall anchor is to restore lateral strength to the wall, also allowing you to pull the wall straight using the natural expansion and contraction of the soil. Walls bow primarily due to poor drainage or negative grade adjacent to the basement wall. When it rains or snow melts the water collects next to the wall rather than draining away. As water saturates the soil adjacent to the wall, the moisture content of the expansive soil is increased and the soil expands putting large amounts of stress on the side of the wall, causing it to break in the middle and bow in. At this point the lateral strength of the wall is gone, leaving it susceptible to failure. When the wall anchor is installed and the grade is raised, the lateral strength is restored and will resist the forces exerted by the expanding soil. When we go through wet and dry cycles, the soils natural expansion and contraction is minimized. This is because the water runs away leaving the soil adjacent to the wall with a consistent moisture content. Wall anchors are adjustable allowing them to be tightened during dry weather. When the soil dries and shrinks away from the wall leaving a gap, the anchors can now be tightened, which will pull the wall straight.



Below are two examples demonstrating how the old technology can fail. (Left) Anchor nut was over-tightened causing the rod to bend, damaging the threads. (Right) With the angle of the wall and rod, by using a square nut one of the points on the nut will make contact with the wall before it is fully tightened. This will cause inaccurate torque readings which can lead to improper pressure on the wall.

### SafeBase™ Patent Pending Wall Anchors have many advantages over prior anchor systems.

1. The use of a larger earth plate for more holding capacity. We are not limited to the size of the excavated hole.
2. We use ballast and vibrations to drive our patent pending earth plates into virgin unexcavated soil onto the anchor rod. We then pull the locking rod end into the plate to make a solid connection.
3. Because we are not digging a hole into the yard, our installation can be done in less time with minimal mess.
4. One key advantage to our system is our patent pending ball and socket tightening system on the wall plate and rod. The anchor rod is driven at a downward angle away from the wall, and because the wall that is being repaired is also leaning at a an odd angle the relationship between the rod and the wall plate is never perpendicular; it is never at a 90 degree angle. This offers a unique problem because it is extremely important not to over-tighten the anchor because you could pull the wall too far. If you do not apply enough torque you will not pull the wall straight. All of the existing manufacturers of anchor systems utilize a standard set of washers and a large square nut. Because this set-up is designed for a straight pull, there is a binding action created between the anchor plate, the washers, and the nut. It is this binding action that gives you a false torque reading, and minimizes proper pull to the earth anchor.



SafeBase Wall Anchor Ball and Socket System

