

# INTRODUCING THE NEW ROCK ANCHOR

**PATENT PENDING**

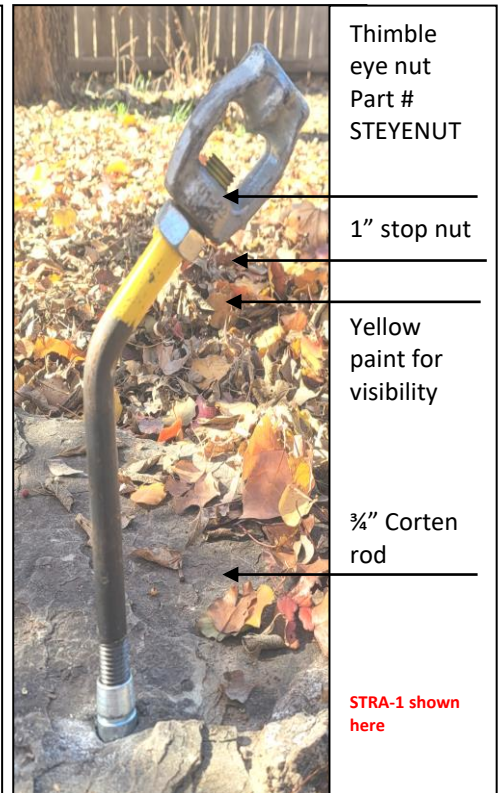
The new anchor designed for solid rock mechanically wedges into the rock and can be loaded immediately.

It is installed by drilling a 1" diameter hole to the proper depth using a Bosch carbide rock bit and a cordless hammer drill. Always install the anchor vertically into the rock. Once the hole is drilled and the debris is removed, place **the tapered plug** into the tip of the anchor and insert the anchor into the hole. Thread the anchor setting tool into the rock anchor, drive the anchor into the hole with a sledge hammer to enable the tapered plug to expand the tip of the anchor wedging it into the rock; this might take a few hits to fully expand the tip (always use the setting tool for safety). This anchor uses material displacement and fixed expansion to obtain optimal holding power.

Attach the proper length anchor rod and thimble eye to the rock anchor. Place the anchor rod to be perpendicular to the angle of the guy wire. Attach the guy wire to the rock anchor assembly.

This process can be completed within 5 minutes depending on the rock classification and the depth of the hole.

Most loads are a combination of tensile and shear. Installation at deeper depths will increase tensile strength and the bent rod perpendicular to the angle of the guy wire will increase the shear strength. **DEEPER IS BETTER!**



## ADVANTAGES

1. Anchor rating – 58,000 pounds. Anchor rod breaking strength is 62,000 pounds
2. Installation time – Approximately 5 minutes depending on rock classification and desired depth
3. Ability to install anchor for guying in solid rock
4. Less total installation cost
5. Safety: No heavy equipment needed to drill rock
6. Rock anchor is threaded for ease of installation and removal of the rod
7. Anchor rods available in 1 foot increments up to 5' in length
8. Yellow paint on rod for high visibility
9. Can be used in shallow holes or at deeper depths and can be loaded immediately
10. Tools needed for installation: \*Battery operated hammer drill \* 1" Bosch tungsten tip bit \*Rock Anchor Setting Tool

**Step 1**  
Drill 1" hole in solid rock 3" deep



**Step 2**  
Place plug inside anchor head & place the setting tool in the hole



**Step 3**  
Hit Setting tool to expand the anchor head to set the anchor



**Step 4**  
Remove setting tool install anchor rod

