

## Pre-drill guide for rocky and hard soil

3 step pre drilling recommendations. For 114mm and 76mm screws, drill down the hole using the following rock/masonry bit sizes as a guide:

### Step 1

114mm; 2"

76 mm; 1"

### Step 2

114mm; 3 ½"

76mm; 2"

### Step 3

114 mm; 4 ½"

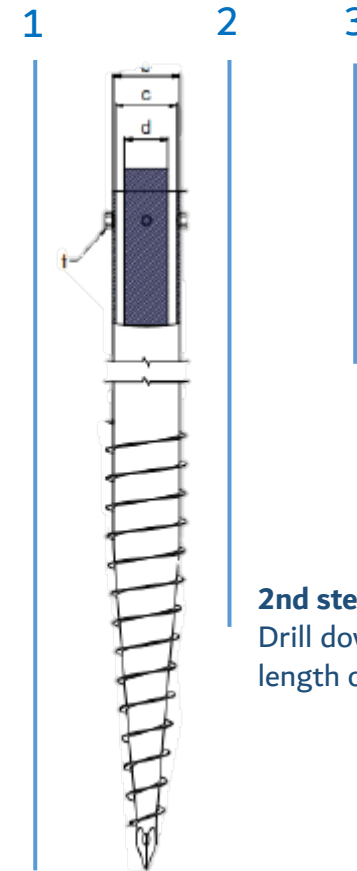
76 mm; 3"

**IMPORTANT:** When starting Step 1 pre drill, sometimes pouring water down the hole is all that is needed to advance the screw when met with resistance. When water fails, proceed to Step 2 pre drill recommendation. If step 2 is still met with resistance then move on to step 3. Using water after each step can be helpful to successful advancement of the screw.

**1st step:**  
Drill down the full  
length of the screw

**2nd step:**  
Drill down ¾ of the  
length of the screw

**3rd step:**  
Drill down ½ of the  
length of the screw



Must measure based on the diameter of screw without the threads to match depth. Vacuum hole to pull out debris every 6"