

Installation

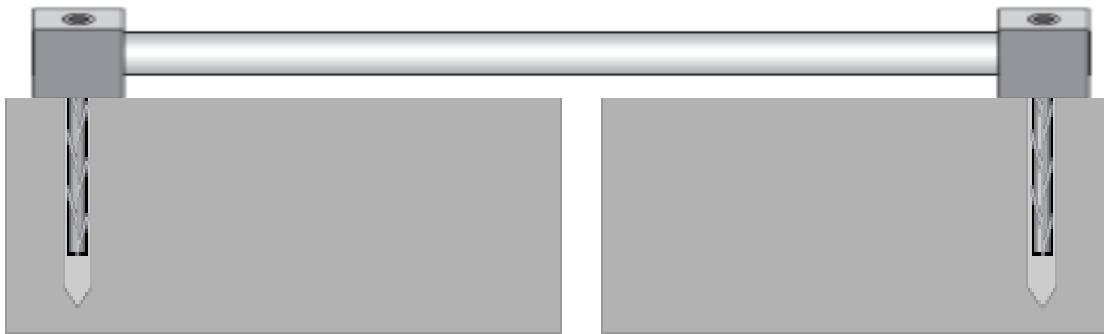
Overview

The basic steps for installation are:

1. Determine position for anchors.
2. Drill holes and clean out debris.
3. Pack holes with epoxy grout or equivalent.
4. Insert anchors and allow grout to set.
5. Attach displacement sensor to anchors.
6. Obtain initial reading.

Install Anchors

1. Mark locations for anchors, these should be 155mm apart.
2. Drill holes. Anchor dimensions are approximately 15 x 75mm (0.6 x 2.5"). Hole depth and diameter should be at least 6 mm (0.25") larger than anchor diameter. Note that anchor top of anchor should be flush with the concrete surface.
3. Clean holes of debris. Then pack with epoxy grout or equivalent.
4. Place the installation tool into the mounting blocks so as to hold the anchors in perfect alignment.
5. Insert anchors into hole.
6. Allow grout to set.
7. Remove the installation tool.



Set the Strain Gauge

This step requires a readout.

1. Slip the strain gauge into the mounting blocks.
2. Tighten set screws on the notched end of the gauge.
3. Connect the readout and choose the "Hz" unit for setting the gauge. A reading of 780 Hz is approximately mid-range. If you expect to measure mainly tensile strains, push coil to left for a reading of 500 Hz. If you expect to measure mainly compressive strains, push the coil right for a reading of 990 Hz.
4. Hold the gauge to maintain the desired reading and tighten the set screws on the other mounting block. The reading may decrease slightly when you release the gauge.

