

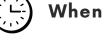


Measuring Depth of Compacted Base and Treated Materials





Measuring the depth of compacted base and treated materials after setting the final grade with grade stakes (blue tops).



Specifications require Tex-140-E for layer thickness to meet the specified section(s) on plans.



<u>Equipment</u>

- One percent phenolphthalein,
- Drill with auger bit, grubbing hoe, and other acceptable hand tools,
- Folding scale, tape measure, with 1/8 in. divisions.
- Six-penny nail, blade, or knife, not to exceed 1/8 in. in thickness and approximately 3 in. in length,
- Straight edge.

Procedure

- Drill or dig a hole approximately 6-8 in. below the layer being measured and wide enough to fit a hand in.
- Make a vertical groove in the side of the hole.
- Locate interface visually.
 - Treated pavement layers, use the 1% phenolphthalein solution to identify the interface. Apply it bottom up; the interface appears where it turns pink.
- When the interface is clearly defined, push a nail or blade horizontally into the interface 1 in.
- Measure from the top of nail to the bottom of the straightedge or surveyor's stake place across top of hole, measure to the nearest 1/8 in. and record.
- Move the nail to another location on the interface measure and record. Repeat until a total of three measurements are reported.



Action

1. Report the average of three measurements to the nearest 0.01 in. as the thickness of the pavement layer.