

Survey Monument Prism

The survey monument prism retains the function of a standard survey marker but provides an optical glass prism for automated monitoring by AMTS systems.

Flush Installation Instructions

1. Chisel or drill hole: 0.75 to 1 inch diameter x 3.5 inch deep.
2. Clean hole and surrounding surface.
3. Insert monument into hole.
4. Draw a line around monument, then remove monument.
5. Chisel material out of marked area until monument sits flush with the surface.
6. Grout the hole. The idea is to fill the voids around the stud and monument. Starting with a small amount and testing by inserting the monument. Work quickly.
7. On the final insertion, check that prism is aligned toward the AMTS.
8. Clean and finish the area.

Specifications

Diameter: 2 inch (51 mm).

Stud: 2.25 x 0.75 inch (57 x 19 mm).

Materials: Bronze marker, polymer prism body, optical glass prism.

Recommended grout: non-shrinking, quick-setting anchoring cement, such as the DRYLOK brand.

Prism: 0.52 inch (13 mm) diameter.

Prism Angle: 20°

Prism Offset: -13.1 mm.

Prism Offset for Leica: +21.3 mm.

Part Number

20° Bronze Monument Prism TSP820

Note: Prisms can accommodate misalignments of $\pm 10^\circ$. For example, the 20° prism provides accurate measurements with angles from 10° to 30°. In typical scenarios, 10° prisms are used with AMTS mounted on pedestals or tripods. 20° prisms are used with AMTS mounted on buildings up to 3 to 5 stories high.



When fully grouted, the monument prism sits flush with the surface.