

Wall Prism System Guide

Tools Required

Equipment/Supply	Part No.	Equipment/Supply	Part No.
GMP101 Mini prism	641662	Hilti TE 6-A36 Drill Package	3551238
Stainless Steel Sleeves	08-402	Hilti TE-CX 3/8" x 6" Hammer Drill Bit, 8/pk	2025924
Stainless Steel Setter	08-400	Suitable Hammer	
Stainless Steel Adapter	08-401	Leica Instrument equipped with Resection Capabilities	



Installation



1. Use the **TE 6-A36 Hilti Drill** and **TE-CX 3/8" x 6" Hammer Bit** to drill a 3/8" hole at a depth of 4-6" at desired location.
2. Insert a **Stainless-Steel Sleeve 08-402** into the hole.
3. Insert the **Stainless-Steel Setter** into the sleeve, hit with the hammer until the sleeve is flush with the wall. This is proper installation.
4. Insert **GMP101 Mini Prism** onto the **Stainless-Steel Adapter 08-401** until you cannot pull it off without pushing the release button.
5. Insert **GMP101 Mini Prism and Stainless-Steel Adapter** into the newly installed sleeve.
6. **Survey as new Station.** Mark appropriately.

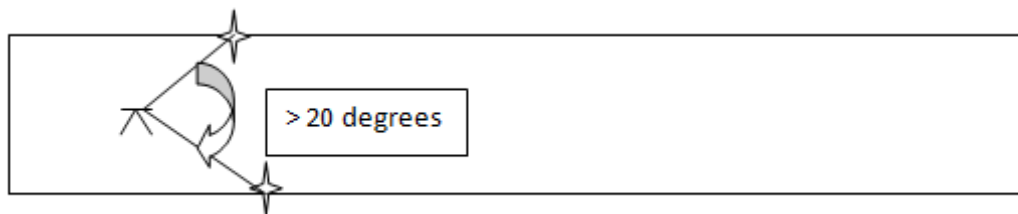
Uses of the Wall Prism System?

The Wall Prism System is designed for easy yet accurate instrument set-up. With small stable parts, the Wall Prism system adds confidence for control points because it is permanently installed into the rock wall and does NOT move, providing constant and accurate prism locations.

Limitations of the Stainless-Steel Wall Inserts

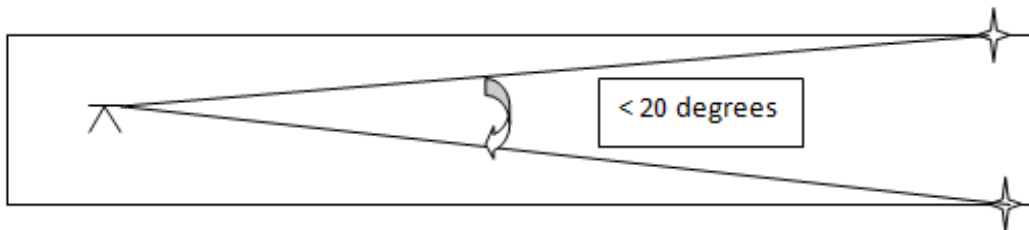
- Avoid long back sights and long foresights greater than 50 meters
- Avoid creating intersections with angles less than 20 degrees or greater than 160 degrees.

Good Practice – Creates accurate Resections

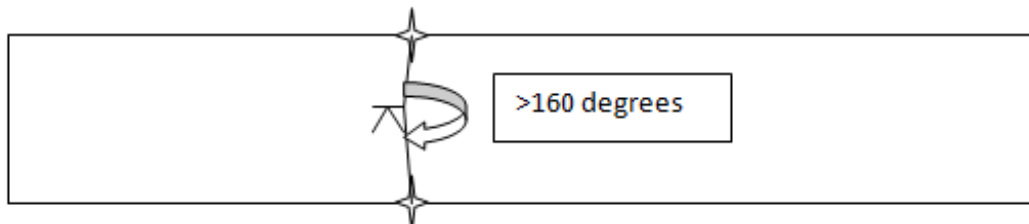


Poor Practice – Creates poor Resection accuracy

Example 1



Example 2





Prism Station Locate

1. Locate stations that will be used. They will be painted with a Smokemark Crosshair and have the Station Name/Number.
2. Insert **GMP101 Mini Prism** onto the **Stainless-Steel Adapter 08-401** until you cannot pull it off without pushing the release button.
3. Insert **GMP101 Mini Prism and Stainless-Steel Adapter** into the located sleeve. Repeat for as many stations that you want recorded during your Resection.
4. Point all **GMP101 Mini Prism** to Total Station.
5. Return to Total Station, select "Resection" method and shoot all visible prisms to calculate your position.
6. Once steps on the Total Station have been followed to complete resection, your Total Station now knows where it is. You are ready to Survey.

You now have successfully used the **Wall Prism System**. If you have any questions regarding any of the above, please contact your **NSS Canada team at (800) 461-3223**.