

Steep Excavation Installation Method for the OMNI 150 Sacrificial Prop

1.
The OMNI 150 sacrificial prop system offers constant support resistance by controlled yielding. It is resilient in rockburst conditions and can accommodate numerous seismic events.
2.
Prior to installing the OMNI 150 prop, install two TS 90 temporary supports at the top of the steep dipping panel, these are used as anchors to assist during the OMNI 150 prop installation.
2.
Before installing the OMNI 150 sacrificial prop system always apply and perform the 'make-safe and demarcation procedures' according to mine standards, also clean the floor to solid ground prior to placing the prop.
3.
A special hose covered plastic sling is provided to assist with the placement of the OMNI 150 prop.
4.
Lift the prop and loop the sling around the top of the prop.
5.
Place the base of the OMNI prop into position whilst being held by the sling.
6.
Attach the poly ethylene headboard to the inner tube of the prop. The incorporated hook will secure the headboard during the installation procedure.
7.
Loop each end of the cable sling around the installed TS 90 props.
8.
Lift and place the prop into position with the filler valve facing away from the face.
9.
Slightly loosen the sling thereby safely guiding the OMNI prop perpendicular to the roof.
10.
Remove the plastic cap from the inlet valve of the prop.
11.
Activate the Elbroc pump to flush the filler nozzle from any grit.

12.

Attach the filler nozzle to the inlet valve and commence pumping.

13.

Commence pumping to extend the prop continuously guiding the prop and the headboard towards the selected position on the roof by loosening or tensioning the sling

14.

Once firm contact between the headboard and the roof has been established move to the safe and supported up-dip position.

15.

Pressurize the prop until the desired load has been reached, or the pump stalls.

16.

Note the attached wedges.

17.

Once the prop has been fully set then slide the wedges downwards thereby centring the inner tube to the outer tube of the prop. The prop is now safely installed.

18.

Detach the filler nozzle from the inlet valve.

19.

The hydraulic Omni 150 sacrificial prop is now permanently set into its pre-determined position.

20.

The load of the OMNI 150 prop system can be varied according to rock conditions as required thereby establishing a safe face environment.