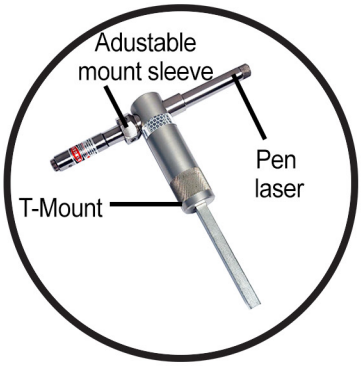
SIDEWALL LINE LASER KIT

V.I. Instruments

CONTENTS

VI Instrument's Sidewall Line Laser provides the client with a simple, quick and reliable method to mark grade lines on development drive side-walls. This 'must-have' product for underground drill-and blast ensures accurate blast-hole pattern alignment, leading to optimum blast outcomes.

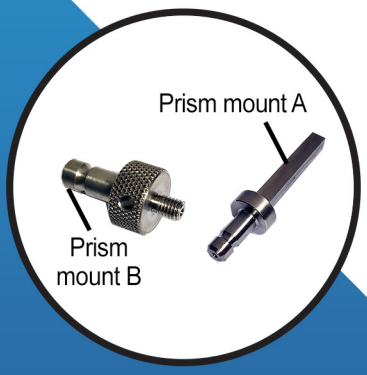
10 x sidewall laser sleeves



1 x pen laser

1 x adjustable mount sleeve

1 x T-Mount



1 x mini prism mount B

1 x prism mount A

1 x mini prism

10 x chemical anchors

1 x cleaning brush

1 x SDS Plus drill bit 20mm

GUIDE

1

1) Set up Total Station and locate grade position on side wall.

2

2) Using SWLL Drill Bit, drill a hole on the grade mark. The hole should be drilled to the marked line on the drill bit.

3

3) Take SWLL Cleaning Brush and clean out any dust from the hole just drilled.

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4) Now turn the Total Station to the face and shine total station laser pointer to correct grade.

5

5) Place one Chemical Anchor in the hole just drilled in the side wall.

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6) Take one Laser Sleeve (SWLL Kit) and press it into the hole with the Chemical Anchor. This will cause the Chemical Anchor to break and the glue to encase the sleeve.

7

7) Slide the Sidewall Line Laser into the sleeve and switch it on by turning the knob at the back of the Pen Laser.

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8) While the Chemical Anchor is still curing you move the Sidewall Line Laser to line up with the laser dot from the Total Station which should currently be on the face.

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9) Allow for two minutes of curing time before removing the Side Wall Line Laser from the sleeve.

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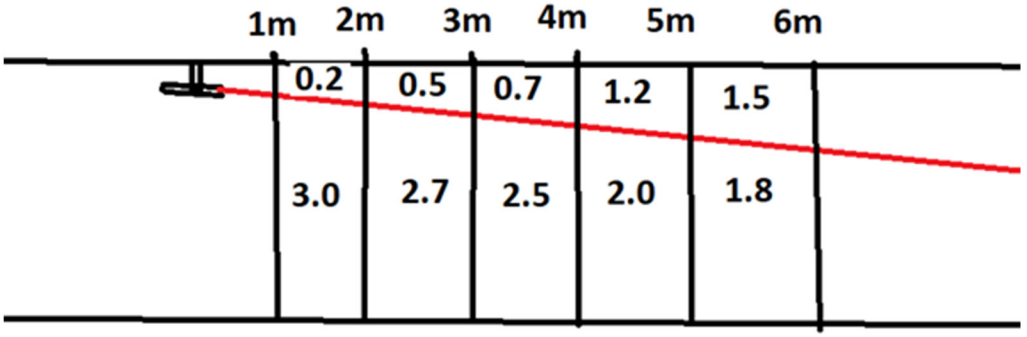
10) Using the Total Station measure the coordinates of the point on the face where the Line Laser is currently shining.

11

11) Now attach the Sidewall Line Laser Mini Prism to the Sidewall Line Laser Prism Mount A and slide it into the sleeve (The offset of this Prism should exactly match the center of the laser).

You now have the coordinates of two points on the line created by the laser – this line can be used to give direction to the miner



12

12) Using the Total Station measure the coordinates of this Prism.

13

13) You now have the coordinates of two points on the line created by the laser – this line can be used to give direction to the miner

14

14) The Mount sleeve position can be used as a Survey Peg installed in the Sidewall.

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