

DATA DIGGER EQUIPMENT

INCLINOMETER CASING

APPLICATION:

The Inclinator casing is used with commercially available Inclinator probes to monitor the stability of:

- Embankment
- Slopes
- Rock Cuts
- Foundation and Excavation
- Piles
- Landfills



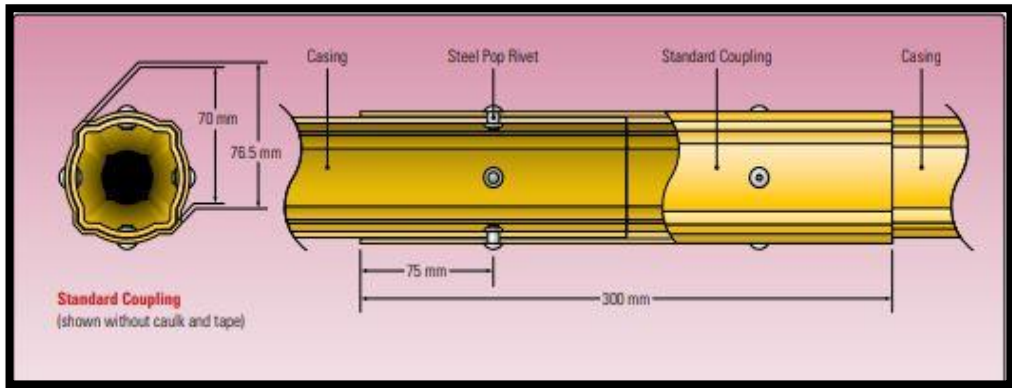
OPERATING PRINCIPLE

The Inclinator Casing is used in conjunction with all commercially available Inclinator probes to monitor the stability of embankments, slopes, rock cuts, foundation, and excavation walls, piles etc. The casing sections are coupled and grouted inside the borehole, or fixed to the surface or piles or sheet piling. The casing and coupling have grooved spaced at ninety-degree intervals, which fits the wheels of the Inclinator Probe thus, maintaining the orientation of the probe as it traversed up and down the casing. The probe accurately measures the change in the angle of tilt from the vertical, of each portion of the casing. These incremental changes are added together to give a vertical profile of the casing, Changes in the profile become a measure of the stability of the structure.

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The Close up shows two sections riveted and taped together with a standard length coupling.



Inclinometer Casing Dimensions and configuration of the standard coupling.

System Components:

Casing and coupling are pop riveted together and the joints are waterproofed using cult and tape. Steel pop Rivets. (1/8 X 3/16 Inch or 1/8 X ¼ Inch) are standard. The Bottom Plug, pop riveted and sealed is used to cap the bottom of the casing and the top plus is used to cover the top of the casing.

Installation Kits will include caulking, tape, pop-rivets, a pop- rivet gun will be given along.



Technical Specification:
Maximum O.D (Nominal): Casing – 70 MM Coupling – 76.5mm
Wall Thickness (Nominal): Casing – 3mm Coupling – 2mm
Length: Casing 3 Meter Coupling 300mm
Material: ABS Plastic
Temprature Maximum: 100°C
Collapsing Pressure: 1 MPa (150psi)
Weight: 1.1 kg/m



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