

Extenso-Inclinometer column



Applications

The Extenso-inclinometer column is used for monitoring the inclination and bedding of an inclino-extensometer column.

In particular find application in:

- Landslides and unstable slopes
- Walls and rock masses
- Excavation of galleries
- Bulkheads and levees
- Earth dams and concrete
- Foundation piles

Technical features

The Extenso-inclinometer column is constituted by a series of ABS inclinometer casings, with four internal longitudinal grooves placed at 90° to each other which allow the probe to be guided and orientated with a constant reference azimuth. Junction couplers every 3 meters, magnetic rings with reference step equal to 1 m, a bottom and head cap complete the column.

Measures

Measurements can be executed periodically performed with the Incremental Extensometer Probe or by installing In-Place Extenso-inclinometers probes. These can be read by a portable readout unit or by a datalogger placed near the casing. If a real time monitoring is required OTR can supply appropriate dataloggers (e.g. D800) and appropriate monitoring system (MyOtr).

OTR srl
Organizzazione Tecnici Riuniti

Via Btg. Susa, 36 – 29122 Piacenza
Tel: +39 0523 594290 – Fax: +39 0523 607512
info@otr-geo.it – www.otr-geo.it – P.IVA/CF 00894610153

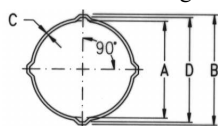


Technical specifications

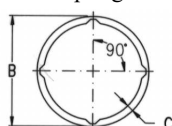
Extenso-inclinometric column			
Code	OPIPEABS060	OMANFABS060	OINCLIANL70
Description	Inclinometric casing ABS inner diam. 60 mm	Coupling	Magnetic ring
Inner diameter	60 mm	67	71 mm
Outer diameter	70.0 mm	77	92 mm
Thickness	3.5 mm	5 mm	5.5 mm
Spiral	63 mm	71.5 mm	
Crop ends length	< 0.3°/m		
Weight	3000 mm	200 mm	
Borehole drilling diameter	~ 0.8 Kg/m	~ 0.8 Kg/m	~ 2.5 Kg/m
Material		110 mm	
Description	ABS	ABS	Coupling ABS Magnet Neo MAG N35

Details

Inclinometric casing section



Coupling section



- A – Outer diameter
- B – Inner diameter
- C – Thickness
- D – Groove inner diameter

Accessories

Code	
OINCLI90000	Dima positioning rings
OCAPS000060	Top/Bottom cap PVC for casing ABS 60 mm
OINCLH10000	Pulley and cable stop
OINCLI8XX0	Dummy probe with cable and reel

Extenso-Inclinometer Scheme

