



INCLINOMETER CASING

Inclinometer casing is a special grooved tube, generally installed into a drillhole, used in conjunction with inclinometer system to determine sub-surface ground or horizontal soil movements.

The inclinometer casing performs the following main functions:

- it reflects deformations of soil or rock into which it is installed or in structures to which it is attached;
- it provides a precise casing for the operation of the inclinometer probe in the determination of inclination changes;
- its internal grooves provide orientation reference for the inclinometer probe.

Inclinometer casing is produced in different materials: aluminium, fibreglass and plastic (ABS Acrylonitrile-Butadiene-Styrene).

Monitoring of lateral earth movements in landslide areas

Detecting the shear planes in earthfill dams

Measuring of stability during site investigations

Deflection of retaining walls and piles under loads

Horizontal inclinometers are used to control settlement in foundations or embankments

INCLINOMETER CASING

ACCESSORIES AND COMPONENTS

OS100CH1000	Lockable top cap	Lockable protective cap with point to assist in topographical surveying to define and check position of borehole. It also provides temporary fixing for S1CSU10000 pulley and cable stop during inclinometer measurements
OS1CSU10000	Pulley and cable stop	Fixed to the top of the casing and used to hold the cable during measurements
OS1CLK15000	Casing clamp	Used to hold the casing string during installation
OS100VF0000	Bottom grout valve	Permits grouting through the casing
OS100VR0000	Removable injection valve	Fits to drill rods and used in conjunction with the bottom grout valve
OS100KIT000	Casing Assembly Kit	Suitable for 100 m of casing and includes all consumable materials. Rivets, sealing tape and adhesive cement
OS1RINV0000	Tail sheave and pulley	Used in horizontal inclinometer installations to retrieve the inclinometer probe
OS131AM6000	Magnetic settlement target	Fixed externally to ABS casing and grouted into the borehole, the targets will allow settlement to be determined



S131 ABS casing

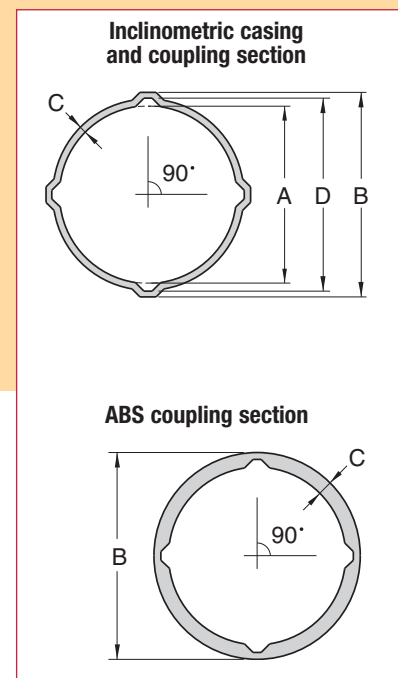
TECHNICAL SPECIFICATIONS

INCLINOMETRIC CASING	OS111007500	OS111005400	OS121007500	OS131006000 (*)
Material	Aluminium	Aluminium	Fiberglass	ABS
A Inner diameter	76.1 mm	49.0 mm	74.0 mm	60.0 mm
B Groove outer diameter	86.4 mm	58.0 mm	87.0 mm	71.0 mm
C Thickness	2.2 mm	2.0 mm	2.5 mm	3.5 mm
D Groove inner diameter	82.0 mm	54.0 mm	82.0 mm	64.0 mm
Spiral	< 1°/3m	< 1°/3m	< 1°/3m	< 0.6°/3m
Crop ends length	3.000 mm	3.000 mm	3.000 mm	3.000 mm
Weight	1.5 Kg/m	0.96 Kg/m	0.9 Kg/m	0.8 Kg/m
Borehole drilling diameter	101 mm	76 mm	101 mm	86 mm

(*) *The ABS (Acrylonitrile-Butadiene-Styrene) S131 casing will withstand differential pressures up to 350 KPa. Avoid installation failure grouting inclinometer casing filled by clean flushing water.*

COUPLINGS

Model	OS111MF7500	OS111MF5400	OS121MF7500	OS131MF6000
A Inner diameter	81.0 mm	54.2 mm	79.5 mm	67.0 mm
B Outer diameter	92.0 mm	62.6 mm	92.5 mm	77.0 mm
C Thickness	2.2 mm	1.7 mm	2.5 mm	5.0 mm
D Groove inner diameter	87.6 mm	59.2 mm	87.5 mm	71.5 mm
Length	300 mm	300 mm	300 mm	200 mm
Weight	0.5 Kg	0.25 Kg	0.3 Kg	0.2 Kg
Material	Aluminium	Aluminium	Fiberglass	ABS



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