



Applications

Inclinometer casing is used in boreholes, embedded in fill material, cast into concrete or attached to structures for the following typical applications:

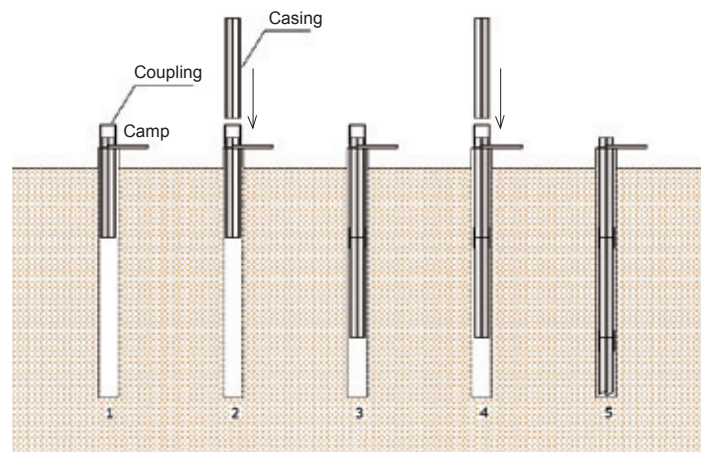
- ♦ Monitoring lateral ground movement in land slide areas
- ♦ Measuring stability during site excavation
- ♦ Detecting the shear planes in earth fill dams
- ♦ Deflection of retaining walls and piles under heavy loads
- ♦ Measuring sub-soil movements in reclamation and sub-soil improvement Sites

Description

CGEO manufactured ABS inclinometer casing is a special grooved tubing, generally installed in a borehole, used along with digital inclinometer probe system to monitor lateral ground movement and measure Borehole verticality.

Key Features

- ♦ Deep, tight groove profile ensures accurate data
- ♦ Available in 70mm and 85mm outer diameters
- ♦ Manufactured from virgin ABS



Comprehensive information about this product and our full range is available at www.cgeo-instruments.com
If you would prefer to speak with someone directly, please call +852 2206 0092 or email info@cgeo-instruments.com

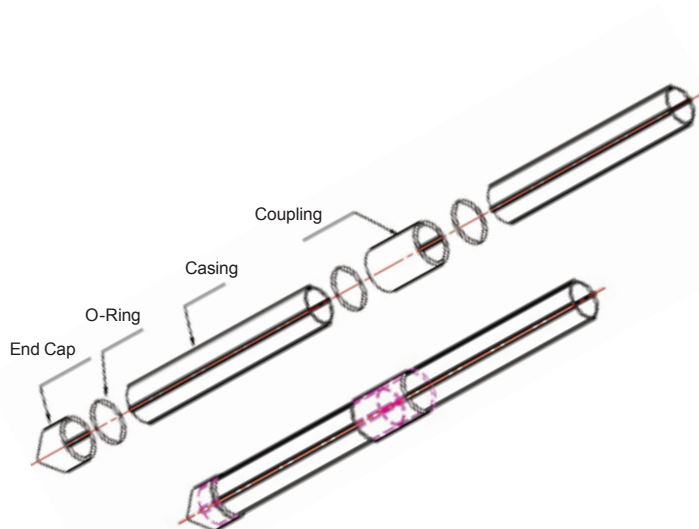
Main Specifications

Type	CGEO-IC-60.1	CGEO-IC-70.1	CGEO-IC-85.1
Casing Specification	OD60mm	OD70mm	OD85mm
Material	ABS	ABS	ABS
Groove Spiral	< 0.3° / 3M	< 0.3° / 3M	< 0.3° / 3M
Collapse Rating	2040kPa	1960kPa	1770kPa
Bend Rating	3.15kN	3.07kN	2.65kN
Maximum Temperature	80°C	80°C	80°C
Tensile Strength	708kgF	705kgF	700kgF
Torque	538Nm	520Nm	481Nm
Length	3000mm (+1mm)	3000mm (+1mm)	3000mm (+1mm)
Outer Diameter	60mm	70mm	85mm
Inner Diameter	53mm	62mm	77mm
Length(STD/TLS) of Coupling	200mm	160mm / 400mm	200mm / 380mm
Outer Diameter of Coupling	67mm	75.5mm	91mm
Inner Diameter of Coupling	57.5mm	68mm	83mm

Operation

Inclinometer Casing can be installed in boreholes, embedded into fill material, cast it into concrete or attached to structures. The casing moves with the ground, material or structure and provides inclination over an extended period of time.

Inclinometer Casing is available in 70mm and 85mm outside diameters and is suitable for most construction and civil engineering projects.



CERTIFICATE

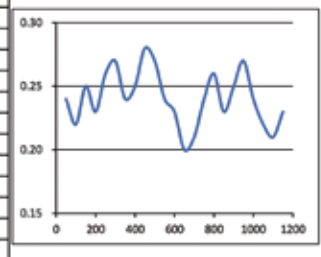
PRODUCT NAME	ABS INCLINOMETER CASING (OD70mm)
TEST DATE	April 7 2017
TEMPERATURE	20°C
HUMIDITY	69%
MATERIAL	ACRYLONITRILE BUTADIEN STYREN (ABS)
SPIRAL	LESS THAN AVERAGE 0.3°PER 3METER
SPECIFIC GRAVITY	1.03

SPIRAL TEST

I. SPIRAL OF 3meter LESS THAN 0.3°

NO	SPIRAL	NO	SPIRAL
50	0.24	650	0.20
100	0.22	700	0.21
150	0.25	750	0.24
200	0.23	800	0.26
250	0.26	850	0.23
300	0.27	900	0.25
350	0.24	950	0.27
400	0.25	1000	0.24
450	0.28	1050	0.22
500	0.27	1100	0.21
550	0.24	1150	0.23
600	0.23	1200	0.24

II. Spiral Deviation



III. RANDOM SAMPLING SPIRAL OF 5pcs CONNECTION BELOW 2.5°

TEST No	SPIRAL
First	AVG 1.25
Second	AVG 1.28
Third	AVG 1.24

Certified that all material and/or ABS Casings above described have been tested and unless otherwise indicated, conform in all respect to the specifications and drawings.



International Manufacturer of Geotechnical & Structural Instruments

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