

QD (QUICK DRIVE) INCLINOMETER CASING

DATASHEET C9.4

PRODUCTS



FEATURES

- End cone provides good fixity and therefore accurate datum.
- Small annulus to backfill.
- Extremely simple driven installation, requiring no rivets, tape or glue.
- Consistent, reliable joints - A machined slot ensures consistent keyway alignment.
- Watertight - An 'O' ring on each seal prevents ingress of water or grout.
- Low spiral, deep tight groove profile.
- Joint tested to ensure better resistance to collapse (pressure) and twist (spiral) performance than standard glued and riveted casing.
- Significant savings in installation time reduces labour cost and drill rig standby charges.



QD (Quick Drive) Casing is an ABS inclinometer casing manufactured using advanced extrusion techniques.

Designed for driving into pre-formed window sampling holes, it may also be used for shallow installations in soft soils.

Combining all the advantages of EC (Easy Connect) Casing it is both faster and easier to install than coupled inclinometer casing, requiring no rivets, glue or sealing tape.

A full range of accessories allows the casing to be extended or joined at any point along its length.

QD Casing is supplied with a full installation guide.

TECHNICAL APPLICATIONS

APPLICATIONS

Quick Drive (QD) Incliner Casing is designed to improve the viability of installing inclinometer casing into pre-formed window sampling holes or where ground conditions permit, pushed to required depth using CPT equipment. These methods remove the need for a drill-rig to attend site, saving time, money and significantly speeding up installation.

The casing consists of a steel cone attached to the end of a 2 metre section of Easy Connect casing, this is driven into the pre-formed hole using a window sample drill/CPT rig passed through the casing to mate with the upper surface of the driving cone. Further 1 metre sections are then added as needed until the required depth is reached.

The coupling method is the same as EC casing.

TYPICAL APPLICATIONS

- Highway and Railway embankments.
- Where ground conditions and access permit, QD can also be pushed into position using CPT equipment.
- Offering a high installation meterage and time savings over conventional installation.



FOR DETAILS ON:

EC (Easy Connect) Incliner Casing, See data sheet: C9.

In-Place Incliner, See data sheet: C12.

In-Site Data Presentation Software, See data sheet: C13.

INSTALLATION

QD Casing is ideal for installation in restricted areas where access is limited, making it non cost effective or simply impossible to use conventional drilling rigs to install inclinometer casing.



CASING SPECIFICATIONS

Material	ABS (Acrylonitrile Butadiene Styrene)
Groove Spiral	< 0.5° / 3m
Collapse Rating	1960kPA
Bend Rating	252N
Maximum Temperature	80°C
Tensile Strength	585kgF
Torque	25Nm

2 METER DRIVE SECTION

Effective Length	1840mm
Length	2090mm
Outside Diameter ¹	70mm
Inside Diameter	59mm
Cone Diameter	76mm
Cone Material	Steel
Cone Taper Angle	40°
Weight	5.7kg

1 METER SECTION

Effective Length	1m
Length	1.06m
Outside Diameter ¹	70mm
Inside Diameter	59mm
Weight	1.3kg

TOPCAP

Weight	48g
--------	-----

LOCKABLE TOP CAP

Weight	718g
--------	------

¹ 58mm Diameter Size Available

ORDERING INFORMATION

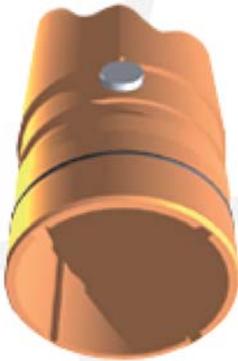
PART NO. DESCRIPTION

C9-4.1	Ø70mm Inclinometer Casing, 2m length with steel driving cone attached
C9-4.3	Ø70mm Inclinometer Casing, 1m length
C9-1.4	Top Cap
C9-1.5	Lockable Top Cap Assembly

INSTALLATION EQUIPMENT

C9-3.6	Security cover
C9-3.7	Lockable heavy duty stopcock cover
W6-1.2	Bentonite powder (Per 25 kg)

C9-4.3 Male End



C9-4.3 Female End



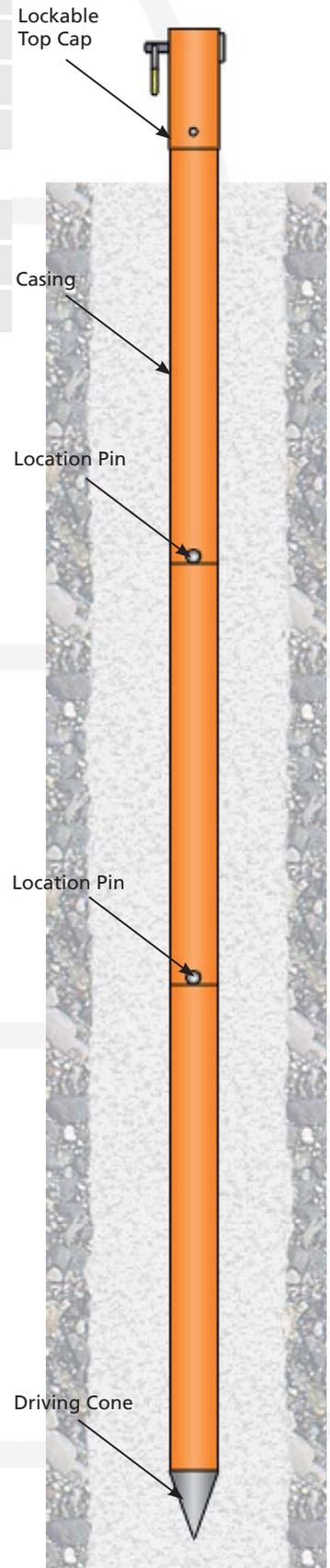
C9-1.5 Lockable Top Cap



C9-4.1 Driving Cone



C9-4 QD Casing-
Complete Installation



CONTACT DETAILS:

Soil Instruments Limited, Bell Lane, Uckfield, East Sussex, TN22 1QL, United Kingdom

Tel: +44(0)1825 765044 Fax: +44(0)1825 761740

Web: www.soil.co.uk Enquiries: sales@soil.co.uk