

Inclinometer Casing QJ (Quick Joint)

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Overview



Geosense® QJ Inclinometer Casing is a quick connecting casing, precision extruded from ABS, with four precise keyways formed at 90 degrees which allow accurate installation of portable and in-place inclinometers.

The quick connecting joint makes it faster and easier to install than traditional glue & socket inclinometer casing with external couplers and does not require any special tools or tapes. On deep installations the time saving is very significant.

It can be used in boreholes, fill material, cast into concrete or attached to structures and is designed to move with the ground, material or structure to provide inclination information over a period of time.

As the casing is designed to deform with movement of the ground or structure the useful life of the casing ends when the continued movement of the casing causes deformation of shear so that the inclinometer probe can no longer be placed into the casing. Larger casing generally ensures a longer life.

Where vertical settlement or heave is anticipated to be greater than 2% it is recommended to use telescopic sections to eliminate axial load on the casing which would cause excessive buckling.

A full range of accessories including bottom and top caps, anchors and groutable anchors are available and can be used in conjunction with magnetic targets for combined inclinometer/magnetic extensometers.

APPLICATIONS

For use with inclinometer systems for monitoring stability & movement of:

Slopes

Embankments

Diaphragm & sheet piled walls

Deep foundations

Tunnelling operations

Piles

Pre-loads

Deep excavations

FEATURES

Low spiral

Fast installation

No rivets, tape or glue

Minimises standing time

Flush connection

Available in 3 & 1.5 metre lengths

Made from 100% virgin ABS plastic

Simple to install & use

Fully compatible with all probe types

70 and 83mm diameters

Telescopic sections available

Can be combined with magnetic targets

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Specifications

CASING SPECIFICATIONS

Material	100% virgin ABS (Acrylonitrile-butadiene-styrene)	
Groove spiral	< 0.3°/3m	
Collapse resistance	~ 2000kPa	
Joint strength	186 Kgf	
Torque	26Nm	
Bend rating	2.6kN	
Maximum temperature	+80°C	
Colour	Orange (other available on request)	

CASING DIMENSIONS

Outside diameter	70mm	83mm
Inside diameter	59mm	71mm
Length (effective)	1.5 & 3 metre	1.5 & 3 metre

STANDARD COUPLER DIMENSIONS

Outside diameter	77mm	91mm
Inside diameter	70mm	85mm
Length	160mm	200mm

TELESCOPIC SECTION

Outside diameter	83mm	90mm
Inside diameter	59mm	85mm
Length	500mm	500mm

WEIGHTS

Casing	1.27kg/m	1.35kg/m
Telescopic section	1.6kg	2kg
Top cap	20g	28g
Bottom plug	168g	200g

ACCESSORIES

Standard Anchor	70mm	83mm
Grout Anchor	70mm	83mm
Grout Cap	70mm	83mm

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Casing Accessories



ACCESSORIES

Casing Accessories include, from left, Centralisers, Caps and Guides

ORDERING INFORMATION

Diameter

Length

Telescopic sections

Bottom cap

Top cap

Anchor type



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