



Inclinometer Casings Specification Sheet

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Grooved casing strings in ABS PVC and aluminium, extruded in house to a single groove standard so one probe fits every hole on site.

Settlement Magnet Ring

The AT-88 series settlement magnet ring is the target component in a settlement measurement system. The housing is injection moulded with magnetic material built in and is compatible with a settlement meter probe. AT-8801 and AT-8802 both suit 53 mm and 70 mm casing and are installed either by borehole drilling or by the filling method.

Parameter	Value
Models	AT-8801 and AT-8802 in the AT-88 series
Casing Diameter Matched	53 mm and 70 mm
Outer Diameter AT-8801	91 mm and 110 mm
Outer Diameter AT-8802	200 mm
Inner Diameter	55 mm and 72 mm
Installation	By borehole drilling or by filling method

Optional Parts For Inclinometer Casings

Top and bottom caps and outer protection boxes for inclinometer casings. These are the parts that keep a monitoring hole usable between surveys: caps stop fill, water and debris entering the casing, and the protection box shields the casing head where it is exposed to site traffic.

Parameter	Value
Parts	Top caps, bottom caps, outer protection boxes
Matched Casing	Our inclinometer casing range including OD 70 mm

Piezometer Casing Pipes

GT-PC series PVC piezometer casing is supplied in OD 53 mm, 70 mm and 80 mm, in 2 m or 4 m lengths, with wall thickness deviation held to 14 percent or less. The three diameters match the settlement magnet rings and the rest of our casing range, so a monitoring hole can be specified from one source.

Parameter	Value
Part Numbers	GT-PC-53 GT-PC-70 GT-PC-80
Outer Diameter	53 mm, 70 mm, 80 mm
Length	2 m or 4 m
Wall Thickness Deviation	14 percent or less
Material	PVC

Standard Aluminum Inclinometer Casing

GT-AL-00 is the standard OD 70 mm aluminium inclinometer casing, built to the same groove and straightness specification as our ABS and PVC casing. It is supplied in 3 m or 2 m lengths with 76 mm couplings and is the choice where a stiffer casing is wanted in the monitored zone.

Parameter	Value
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Casing OD	70 plus minus 1.0 mm
Casing Wall Thickness	5 plus minus 0.5 mm
Guide Groove Width	5 plus minus 0.5 mm
Guide Groove Depth	2 plus minus 0.2 mm
Bending	1.0 per mille or less
Torsion Angle	0.2 degrees per metre or less
Radian	0.4 mm or less
Intensity Strength	at least 1200 N/100m
Heat Deflection Temperature	at least 97 degrees C
Casing Length	3 m or 2 m
Coupling OD	76 plus minus 1.0 mm
Coupling Wall Thickness	5 plus minus 0.5 mm
Coupling Length	18 plus minus 0.5 cm
Coupling Bending	1.0 per mille or less
Coupling Intensity Strength	at least 1200 N/100m
Coupling Heat Deflection Temperature	at least 97 degrees C

Standard PVC Inclinometer Casing

GT-PVC-00 is the standard OD 70 mm PVC inclinometer casing, dimensionally matched to our ABS casing so the same probes and couplings apply. It is supplied in 3 m or 2 m lengths with 76 mm couplings at 18 cm, holding bending to 1.0 per mille or less and intensity strength of at least 1200 N/100m.

Parameter	Value
Casing OD	70 plus minus 1.0 mm
Casing Wall Thickness	5 plus minus 0.5 mm
Guide Groove Width	5 plus minus 0.5 mm
Guide Groove Depth	2 plus minus 0.2 mm
Bending	1.0 per mille or less
Torsion Angle	0.2 degrees per metre or less
Radian	0.4 mm or less
Intensity Strength	at least 1200 N/100m
Heat Deflection Temperature	at least 97 degrees C
Casing Length	3 m or 2 m
Coupling OD	76 plus minus 1.0 mm
Coupling Wall Thickness	5 plus minus 0.5 mm
Coupling Length	18 plus minus 0.5 cm
Coupling Bending	1.0 per mille or less
Coupling Intensity Strength	at least 1200 N/100m
Coupling Heat Deflection Temperature	at least 97 degrees C

Flushed ABS Inclinometer Casing

GT-ABS-01 is the flushed type ABS inclinometer casing at OD 70 mm, supplied in 3 m lengths with a slim 73 mm coupling at 3 mm wall and 15 cm length. The smaller coupling outer diameter keeps the annulus tight in a drilled hole where a standard 76

mm coupling would not pass. OD 85 mm is also available.

Parameter	Value
Casing OD	70 plus minus 1.0 mm
Casing Wall Thickness	5 plus minus 0.5 mm
Guide Groove Width	5 plus minus 0.5 mm
Guide Groove Depth	2 plus minus 0.2 mm
Bending	1.0 per mille or less
Torsion Angle	0.2 degrees per metre or less
Radian	0.4 mm or less
Intensity Strength	at least 1200 N/100m
Heat Deflection Temperature	at least 97 degrees C
Casing Length	3 m
Coupling OD	73 plus minus 1.0 mm
Coupling Wall Thickness	3 plus minus 0.5 mm
Coupling Length	15 plus minus 0.5 cm
Coupling Bending	1.0 per mille or less
Coupling Intensity Strength	at least 1200 N/100m
Coupling Heat Deflection Temperature	at least 97 degrees C
Other Diameters	OD 85 mm also available

Standard ABS Inclinometer Casing

GT-ABS-00 is the standard OD 70 mm ABS inclinometer casing with four internal guide grooves for traversing probes and in place strings. Casing is supplied in 3 m or 2 m lengths with 76 mm couplings, and OD 53 mm and 80 mm pipes are also available. It is produced on our own extrusion lines, which is what lets long project quantities ship on a predictable date.

Parameter	Value
Casing OD	70 plus minus 1.0 mm
Casing Wall Thickness	5 plus minus 0.5 mm
Guide Groove Width	5 plus minus 0.5 mm
Guide Groove Depth	2 plus minus 0.2 mm
Bending	1.0 per mille or less
Torsion Angle	0.2 degrees per metre or less
Radian	0.4 mm or less
Intensity Strength	at least 1200 N/100m
Heat Deflection Temperature	at least 97 degrees C
Casing Length	3 m or 2 m
Coupling OD	76 plus minus 1.0 mm
Coupling Wall Thickness	5 plus minus 0.5 mm
Coupling Length	18 plus minus 0.5 cm
Coupling Bending	1.0 per mille or less
Coupling Intensity Strength	at least 1200 N/100m
Coupling Heat Deflection Temperature	at least 97 degrees C

Other Diameters	OD 53 mm and 80 mm casing pipes also available
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Published values are general averages for reference. Actual product data should be based on the results of actual testing within the applicable scope.