

	<b>PRODUCT CATEGORY:</b>
	INCLINOMETERS + TILT SENSORS

# Telescopic Inclinometer Casing

Telescopic Inclinometer Casing is mainly used in embankments that are gradually raised, such as embankment dams and tailings dams, and where the casing will be subject, either locally or along its full length, to large amounts of settlement, typically more than 1%.

The Telescopic Inclinometer Casing is not recommended for use in boreholes where the entire string of casing sections is lowered all at once. For this latter situation, standard inclinometer casing (either Snap Seal or Glue and Snap - see separate brochure) with telescopic sections should be preferred.

The internal guide grooves for the inclinometer probe are precision machined and provide effective control of spiral, straightness, groove shape & depth. Alignment is maintained by screws in the casing and longitudinal slots in the couplings. The couplings accommodate up to 150 mm (6 in.) of compression or extension. Optional settlement flanges can also be attached to each casing section when it is installed incrementally in embankments. Heavy Duty Inclinometer Casing is also available by special order. Contact RST for details.

## > ADVANTAGES

- Easily added in embankment construction.
- Prevents axial loading during settlement.
- Provides access for settlement and geophysics measurement.

## > DISADVANTAGES

- Step error may occur at couplings which moves as material settles (see Figure 1 on back page).
- Vertical duct may be an internal erosion risk in embankment dams.

## > APPLICATIONS

- Embankment settlement
- Landslides and slope stability
- Dam stability
- Subsidence control
- Pilings
- Bridge pier, abutments deflection
- Areas next to large excavations

## > FEATURES

- High precision, machined guide grooves.
- Meets or exceeds all applicable standards.
- Compatible with all commercial probe types and in-place inclinometer sensors.
- Low temperature, impact and corrosion resistant ABS plastic.
- Easy assembly.

## > BENEFITS

- ✓ **Increase Safety**
- ✓ **High Reliability**

# Telescopic Inclinometer Casing



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INCLINOMETERS + TILT SENSORS

## SPECIFICATIONS + ORDERING

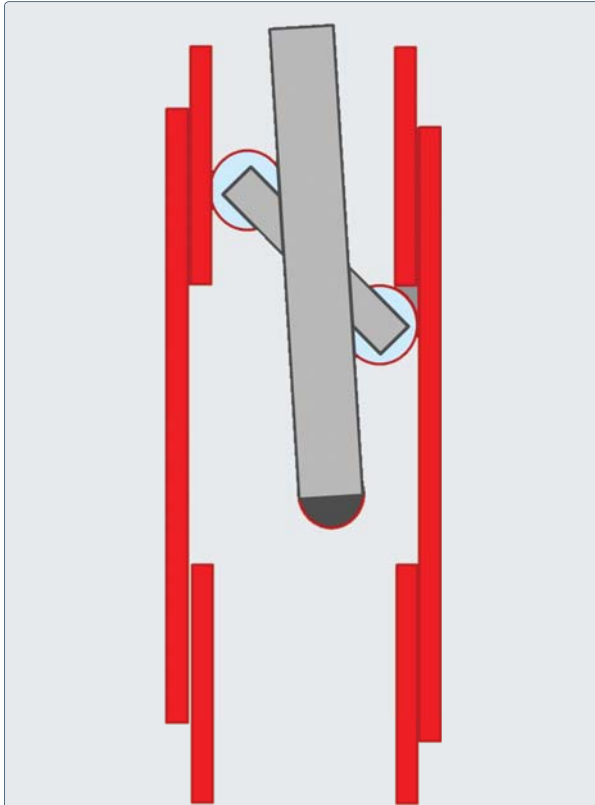


FIGURE 1

The above drawing shows Step Error which may occur due to coupling movement or material settlement.



Heavy Duty (85 mm OD - 59 mm ID) Casing thickness shown in comparison to Standard (70 mm OD - 59 mm ID) Inclinometer Casing shown below.



### SPECIFICATIONS

DESCRIPTION	70 MM (2.75 IN.) CASING	85 MM (3.34 IN.) CASING
Casing OD	70 mm (2.75 in.)	85 mm (3.34 in.)
Casing ID	59 mm (2.32 in.)	73 mm (2.87 in.)
Coupling OD	77 mm (3.03 in.)	91 mm (3.58 in.)
Lengths	1.52 & 3.05 m (5 & 10 ft.)	
Spiral	≤ 0.3° per 3.05 m (10 ft.)	
Temp. Range	-29° to 82° C (-20° to 190° F)	
<b>HEAVY DUTY CASING SPECIFICATIONS</b>		
Heavy Duty Casing OD	85 mm (3.34 in.)	
Heavy Duty Casing ID	59 mm (2.32 in.)	

### ORDERING INFO

ITEM	PART #
70 mm Telescopic Casing: 1.52 m length (5 ft.)	ICTC205
70 mm Telescopic Casing: 3.05 m length (10 ft.)	ICTC210
85 mm Telescopic Casing: 1.52 m length (5 ft.)	ICTC305
85 mm Telescopic Casing: 3.05 m length (10 ft.)	ICTC310
70 mm Telescopic Casing Bottom Cap (10 ft.)	ICTC2BC
70 mm Telescopic Casing Settlement Flange	ICTC2SF
70 mm Telescoping Casing Magnetic Settlement Target - Flange	ICTC2SFM
70 mm Telescopic Casing Coupling	ICTC2TC
85 mm Telescopic Casing Bottom Cap (10 ft.)	ICTC3BC
85 mm Telescopic Casing End Cap with Magnetic Targets	ICTC3BC-M
85 mm Telescopic Casing Settlement Flange	ICTC3SF
85 mm Telescoping Casing Magnetic Settlement Target - Flange	ICTC3SFM
85 mm Telescopic Casing Coupling	ICTC3TC
Heavy Duty Casing: 1.52 m length (5 ft.)	ICTC-HD5
Heavy Duty Casing: 3.05 m length (10 ft.)	ICTC-HD10
Heavy Duty Telescopic Casing Coupling	ICTC-HDTC
Heavy Duty Telescopic Casing Bottom Cap	ICTC-HDBC
Heavy Duty Telescopic Casing Bottom Cap with Magnetic Targets	ICTC-HDBC-M