

**EASY INSTALLATION,
LOW MAINTENANCE!**



Tokai Water Proof Earth Rod Seal



Description	Product No.
Single Flange	TK 450
Double Flange	TK 451
Triple Flange	TK452

Quality Lightning Component

Introduction

Tokai's Water Proof Earth Rod Seal is designed to meet the most stringent requirements of earthing and lightning protection installations that require penetration of concrete foundation slabs in areas of high water table.

The function of the Water Proof Earth Rod Seal is to provide an electrically continuous connection between the earth mat and the respective equipment earth bars or lightning down conductors. Tokai's Water Proof Earth Rod Seal provides this interface connection while simultaneously seal the gap between the earth rod and the surrounding concrete.

Features:

- ✓ **Polymer Construction:** tough and durable, corrosion resistance, long service life
- ✓ **Load Tested:** Withstand 75kN force on pit cover without failure
- ✓ **Pressure Tested:** Withstand 90 psi or 6.2 bar (equivalent to 62m head of water) water pressure for 96 hours without failure
- ✓ **Easy Installation:** Full installation instruction guide for ease of installation
- ✓ **Standards Compliance:** Meet MS IEC 62305 and International Lightning Standards

Your Preferred **Lightning & Security** Solutions Provider

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Easy Installation, Low Maintenance!

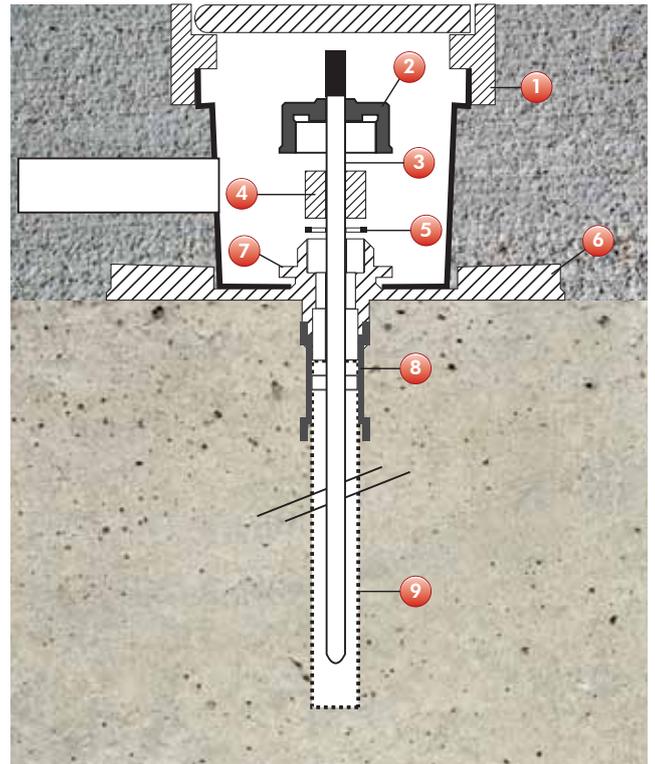


Parts Checklist

- | | |
|---------------------------|----------------------------|
| 1. Polymer inspection pit | 6. Seal housing |
| 2. Seal Cap | 7. Inspection Pit Lock Nut |
| 3. 'O' Ring Rod Seal | 8. Seal Tube Coupler |
| 4. Compression Collar | 9. Seal Tube |
| 5. Seal Washer | |

Installation Procedure

1. Remove Seal Cap (2), 'O' Ring Washer (3), Compression Collar (4), EPDM Flat Washer (5) and Inspection Pit Lock Nut (7). Keep all loose parts safe until required.
2. Fit seal Tube Coupler (8) onto Seal Tube (9) then fit both assembled parts (8) & (9) onto the base of the Seal Housing (6) ensuring all parts are fully engaged. **Note: Ensure that all components are clean prior to assembly.**
3. Using a Hole Saw, make a suitable size hole on the wall size(s) of the Plastic Inspection Pit (1) to accept the Plastic Cable Duct (not supplied) for the Earth Conductor/Tape. Position of the Cable Duct should allow for a minimum covering of concrete of 50mm.
4. Install Plastic Inspection Pit (1) onto the Seal Housing (6) and secure using Inspection Pit Lock Nut (7) ensuring that the two adjoining component faces and thread are free from debris/stones.
5. Position the Earth Assembly at the required site location ensuring that there are no obstructions within or at the bottom of the Earth Tube. It may be necessary to depress or build up the blinding coat or Damp Proof Membrane (DPM) to ensure that the top of the Plastic Inspection Pit is in accordance with the finished floor level.
6. When a water proof membrane is used it should be adhered to the underside of the Seal Housing (6) using proprietary building mastic. The mastic layer should be applied in a heavy circular formation so that the grooved underside of the Seal Housing (6) can be sealed without causing breaks and leakage paths.
7. Both side slot is given in the Moulded Piece for subsequent concrete pouring.
8. Once the Seal Housing (6) and Plastic Inspection Pit (1) are in place, commence driving the rod to the required depth ensuring that the top of the earth rod is below the bottom face of the Polymer Inspection Pit Lid.
9. After driving the rods ensure that the inside bore within the Seal Housing (6) is clean and that no damage has been caused.
10. Pass the Flat Seal Washer (5) over the Earth Rod into the Seal Housing (6). Next insert the Compression Collar (4) into the same way, pass the 'O' Ring Rod Seal (3) over the rod so that it touches the tip of the Compression Collar (4) already installed.
11. Finally screw the Seal Cap (2) onto the Seal Housing (6) ensuring all other components have been assembled and hand tightened only.z



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