



# Earthing & lightning protection Earth rod seal



# Furse earth rod seal

## To prevent water ingress when installing earth rods

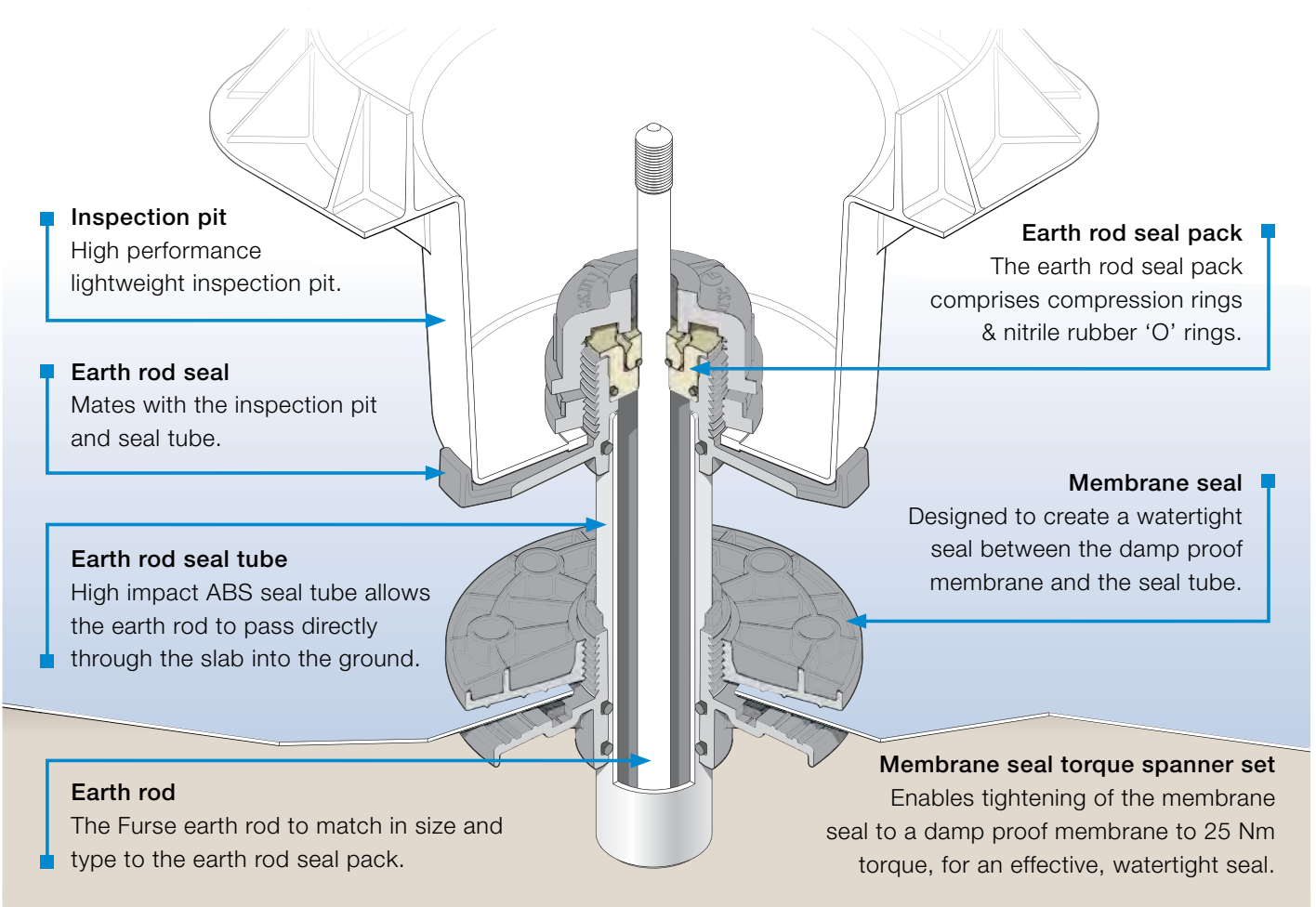
Modern building specifications often require that earth points are located within the building itself, which means that rod type earth electrodes must pass through the building's foundations or floor slab.

In such applications, where the building's damp proof membrane is pierced, it is necessary to prevent the upward seepage of water through use of a suitable sealing mechanism around each earth rod. Furse market-leading earth rod seals have offered the most effective solution to this problem for years. Now, our new earth rod seal delivers all the benefits of previous designs whilst offering the simplest, most cost effective installation to date.

The new Furse earth rod seal utilizes our removable compression seal technology, and is specifically designed to ensure a watertight seal between Furse earth rods and

commonly used damp proof membranes, without the need for adhesive, sealant or mastic. Furse lightweight inspection pits fit easily on to the seal assembly making connections to earthing conductors readily accessible, and through selection of a suitable length of seal tube, an effective seal through both shallow and deep concrete slabs can be achieved.

Complete assembly of a Furse earth rod seal around an earth rod is easily achieved using a number of core components, including an earth rod seal assembly and accessory spanners, earth rod seal pack, protective seal tube and lightweight inspection pit.



### Key features include:

- Manufactured using a lightweight polymer for simple cost effective installation
- Corrosion resistant, preventing unnecessary maintenance costs
- Achieves a secure, watertight seal to most commonly used damp proof membranes without the use of adhesive, sealant or mastic
- Earth rod seal pack pressure tested to 80 psi or 5.5 Bar (equivalent to a 55 m head of water)
- Internal compression seals available to fit all Fursee earth rod sizes and types
- Earth seal design permits removal of the earth rod seal pack if required without the risk of damage
- Designed for use with Fursee high performance lightweight earth inspection pit, which eliminates the need for time consuming shuttering around the top of the earth rod
- Minimal on site assembly is required, and clear, easy to follow instructions are provided
- Conforms to IEC/BS EN 62305-3 and tested to IEC/BS EN 62561-5: Requirements for earth electrode inspection housings and earth electrode seals



### Earth rod seal

| Part no.                       | Description                                      | Weight each (kg) |
|--------------------------------|--|------------------|
| <b>Earth rod seal assembly</b> |  |                  |
| ES300                          | Earth rod seal and membrane seal                 | 0.75             |
| <b>Earth rod seal pack</b>     |  |                  |
| ES300-12                       | Seal pack for 1/2" (ø 12.7 mm) Copperbond rod    | 0.06             |
| ES300-58                       | Seal pack for 5/8" (ø 14.2 mm) Copperbond rod    | 0.06             |
| ES300-34                       | Seal pack for 3/4" (ø 17.2 mm) Copperbond rod    | 0.06             |
| ES300-15                       | Seal pack for ø 15 mm solid copper rod           | 0.06             |
| ES300-16                       | Seal pack for ø 16 mm solid stainless steel rod  | 0.06             |
| ES300-20                       | Seal pack for ø 20 mm solid copper rod           | 0.06             |
| <b>Earth rod seal tube</b>     |  |                  |
| ES310-03                       | Seal tube, 300 mm length                         | 0.16             |
| ES310-05                       | Seal tube, 500 mm length                         | 0.27             |
| ES310-10                       | Seal tube, 1,000 mm length                       | 0.54             |
| ES310-15                       | Seal tube, 1,500 mm length                       | 0.81             |
| ES310-20                       | Seal tube, 2,000 mm length                       | 1.08             |
| ES310-30                       | Seal tube, 3,000 mm length                       | 1.62             |
| <b>Polymer inspection pit</b>  |  |                  |
| PT205                          | Lightweight inspection pit with grey polymer lid | 1.80             |
| <b>Accessory spanner set</b>   |  |                  |
| ES320                          | Membrane seal torque spanner set                 | 0.45             |

### Standards

IEC/BS EN 62561-5

- When specifying a Fursee earth rod seal, ensure that all relevant components are ordered - earth rod assembly, seal pack, seal tube, accessory spanner set and lightweight inspection pit. The accessory spanner set may be used for multiple earth rod seal installations
  - Please specify the correct size of earth rod seal pack for the earth rod, and the correct length of protective seal tube when ordering
- Note: earth rod seal designed for use with clean, smooth Type 'A' damp proof membranes as defined by BS EN 13967, without the need for adhesive, sealant or mastic. For uneven, textured or tanking damp proof membranes, if installed, or where hydrostatic conditions exist, adhesive, sealant or mastic should be applied



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