

Preparation

Excavate ironwork

Remove old ironwork ensuring that all cracked asphalt is removed from the surrounding area.

Clear and repair brickwork

Clear brickwork of all debris and old bedding material. Check the access chamber for loose brickwork and crumbling mortar. Replace any loose bricks and repoint as necessary. Check that the access frame will seat evenly. When installing access covers with a 100mm deep frame, rebuild the brickwork chamber to a minimum level of 115mm below the carriageway surface using at least Class B engineering bricks (165mm below surface using 150mm deep frame). Any bricks used should have a comprehensive strength of not less than 20N/mm². Shimpac planks can be used to improve or raise the chamber seating area.

Installation

Mix Material



Material is pre-blended in controlled quantities, mix as per instructions on pack. If using a resin mortar pour the liquid polyester resin into a suitable container followed by the hardener component. Using a mechanical mixer ensure that the material is thoroughly mixed (wetted).

Bedding Layer



Place layer of bedding mortar on brickwork approximately 25mm to 40mm in depth. Ensure that enough coverage is available to make contact with the entire flange of the casting. Use Shimpac planks if necessary

Seat Casting



Position casting frame over the access chamber and tamp down to ensure that the mortar keys to the casting. For optimum performance units are designed to be supported under the entire flange area, up to the edge of the clear opening. Failure to provide bedding over this area will detrimentally affect the performance and longevity of the unit.

Level Casting



Ensure that the casting is level with the road surface by placing a straight edge across the corners of the casting onto the road. The frame can be made level by tamping the frame into the bedding material.

Check gaps under flange

Ensure that there are no visible gaps under the flange and smooth bedding material with trowel both inside and outside of chamber.

Envelope flange



Use the remaining mortar to envelope the flange, paying particular attention to the corner areas. Smooth out the mortar with a trowel to ensure good bonding with the casting and to avoid any initial cracks in the bedding mortar.

Backfill



Check that the bedding material has hardened, then backfill with concrete/tarmac. Ensure that tarmac is properly compacted