

Method Statement Waterproofing #9 Molyneux Street W1H 5HP.

The structure which the membrane system will be applied to will be existing vaults which have been underpinned.

The intention is to install a cavity drain membrane to the inside of the walls and floor utilizing a drainage channel which will sit around the perimeter of the basement.

This channel will lead into a sump and pump system which will mechanically lift the water out of the basement to an external drainage point.

Preparation

Any existing brickwork regarded as friable is to receive a coating of cementitious render to stabilize the surface.

The pins are to be cast with a water bar between them to help prevent lateral water ingress.

The pins are to be coated with a cementitious tanking slurry to inhibit lateral water ingress.

The walls and floor are to be treated with a lime inhibitor to prevent the build-up of lime scale with the cavity drain drainage system.

Any service penetrations are to be placed in preformed service ducts and sealed on the outer edge with a tanking slurry and internally with a hydrophilic filling compound.

The slab is to be laid level with a tolerance of +/- 5mm

The rebate for the drainage channel is to be 120mm x 50mm.

The sump chamber is to be cast in concrete.

Cavity Drain Application

The cavity drain membrane will be MS500 or similar with no requirement for the direct application of a wet trade. Fixing plugs will be installed spacing to allow for the fixing of timber battens and then plasterboard.

Any service penetrations are to be taped and sealed with 150mm wide single sided butyl tape.

The wall/floor junction of the membrane system is to be sealed with 150mm single sided butyl tape.

The drainage channel will have rodding points at intervals of around 10 linear metres of servicing. These must remain accessible for the service life of the membrane system.

The drainage channels will run in a 'ring' formation with 2 inlets into the sump chamber.

The sump chamber will have 2 outlets, one being a conduit pipe for electrical requirements and one a high-pressure discharge pipe going to a nearby outlet or external drainage point.

The sump system is to have a minimum of 2 pumps with a high-level water alarm.

The sump is designed to take cavity drain membrane wastewater only.

A service contract will be agreed upon completion of the project to ensure annual maintenance is carried out for the pumping system and is a requirement of the guarantee.

The membrane system will require a covering of screed or 2 layers of 18mm structural ply if head height is restricted.

Any fixings through the membrane system must be discussed with the installer prior to commencement.

Any loading of plant or heavy goods must be discussed with the installers at design stage.

Standard electrical supply required for the pumping system and high-level water alarm is 2 x 13A spurs and 1 x 5A spur. These requirements must be checked against pumping spec. Each spur must run on its own circuit and have a its own dedicated breaker.