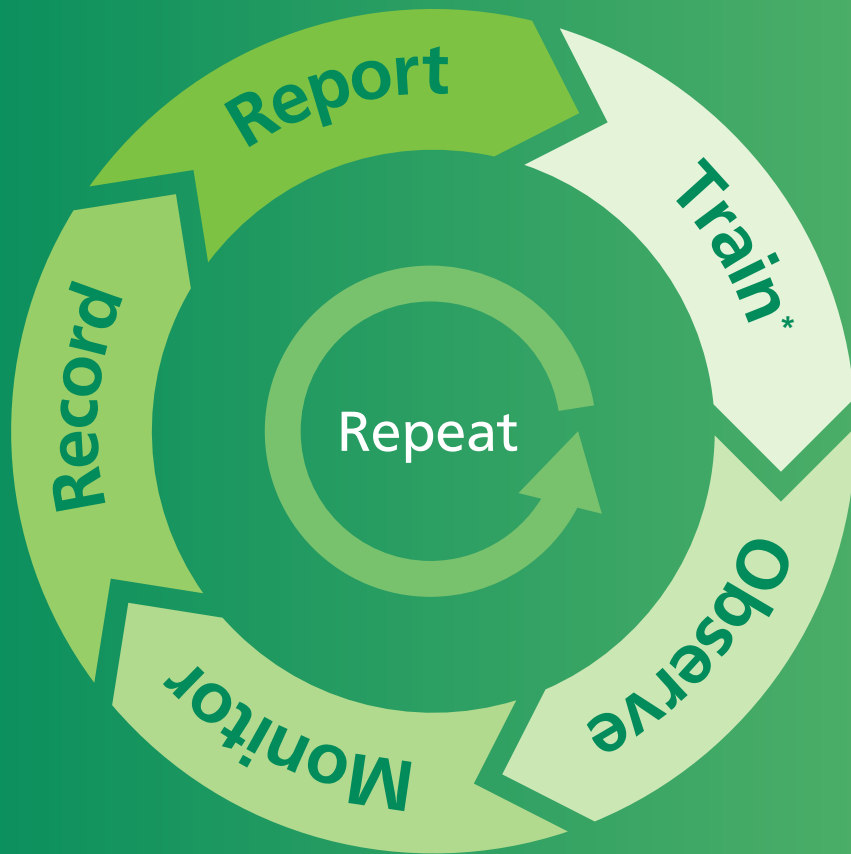




Independent Training*, Testing, Validation, Verification & Design

Construction systems designed to protect structures against water, ground gas and hazardous substance ingress





On-Site Quality Assurance Programs, Risk Assessment and Project Support.

It is internationally acknowledged (ref British Standard 8102:2009) that when human error occurs in product choice, application or design, partnered with climate variations, geological changes and alterations to water courses, the results can be devastating.

GeoShield's unique approach to on-site Quality Assurance Programming is proven globally at **reducing the negative effects of human error.**

This approach starts from project conception and continues through to building completion and occupancy.

Quality Assurance

As every project is unique, the GeoShield **Quality Assurance Program** will be created bespoke to your construction; each building will include:

- ✔ **Design & Validation** - Our designers can create individual designs for all scenarios backed by GeoShield PI.
- ✔ **Bespoke Method Statements** - can be produced at all stages of the construction program.
- ✔ **Project Training** - GeoShield's project specific training extends to all levels of management hierarchy from installer, site management through to senior management.
- ✔ **Inspection & Verification** - On-site verification and reporting which gives live feedback to create solution-based strategy.
- ✔ **Cloud Based QA** - All Quality Assurance documentation is assessed centrally in the UK via on-site operatives.
- ✔ **Every M² Verified** - The Quality Assurance process GeoShield has created means that every M/2 is checked so if a fault occurs information is available.



On-Site QAP And Design Assistance

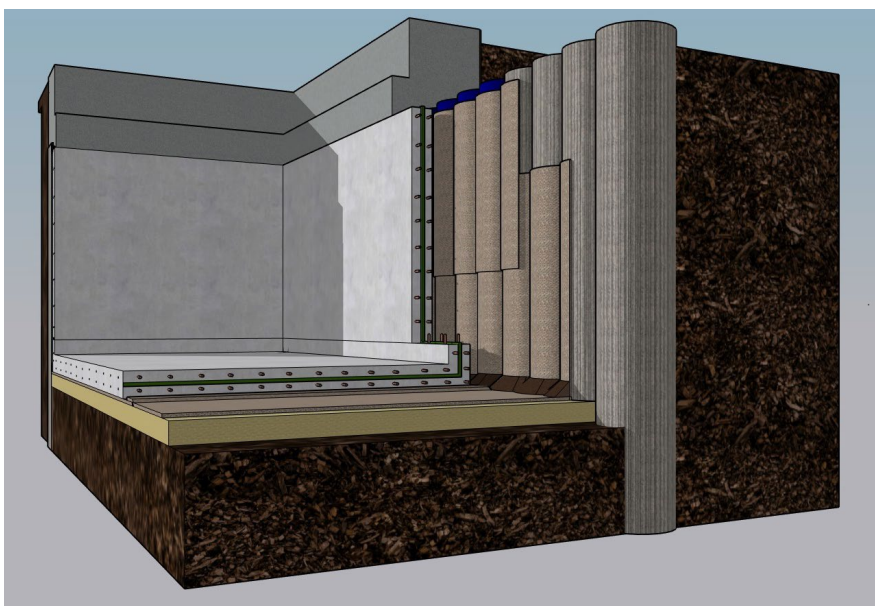
All construction projects are supported by the GeoShield On-Site **Quality Assurance Program** which includes its comprehensive design service, ensuring that all construction advice and design detailing is provided by qualified unbiased independent engineers.

GeoShield Global provide off-site, on-site and Cloud based validation and verification for all ground water and gas protection and retainment systems including design assistance method statement creation applicator training and overall management team awareness.

Taken from pre-construction stage through to building completion via our bespoke project **Quality Assurance Programs** GeoShield verify:

- ✔ All polymer, bituminous liquid and bentonite waterproofing membranes
- ✔ Land, pond and reservoir liners
- ✔ Concrete mat retainment systems
- ✔ Soil stabilisation systems
- ✔ Injection grouts, including basement void fillers
- 💧 On-site and Cloud based AquaTrace Waterproofing leak monitoring system for green roofs, high-rise pool & bar decks and podiums.

GeoShield's exclusive approach has proven effective all over the world. The implementation of our holistic approach to **Quality Assurance Programs** establishes step by step accountability, raises confidence in your chosen systems performance and is a key factor in keeping your project to schedule.



Methods of Testing

A variety of testing methods are available. As accuracy is paramount, methods are agreed at pre-verification/inspection stage though any GeoShield **Quality Assurance Program** can be enhanced as need requires. Our selected methods of testing are:

- ✔ Visual
- ✔ Mechanical point stress test (Pick and probe)
- ✔ Air lancing following ASTM D4437 / D4437M – 16 (2018)
- ✔ Pressure testing twin wedge welding joint
- ✔ Dielectric porosity testing
- ✔ Smoke test
- ✔ Inert gas test
- ✔ Weld testing using tabs (destructive test using 'mole' grips)
- ✔ Vacuum testing box
- ✔ Ultrasonic pulse echo testing
- ✔ Podium & Bund Lining Flood Tests
- ✔ Trench Lining Flood Testing
- ✔ Drone Surveys
- ✔ Surface Regularity Testing
- ✔ Surface Anti-Slip testing

