

# Project Portfolio



## Tunnels & Shafts

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## TUNNELS AND SHAFTS

**Southern Water**  
**Dover U.K.**

Foul water sewer interceptor tunnel, 1.6km long, "turn key" design and construct sub-contract using NATM technique  
**value £1.1m**

***Sprayed concrete***

**Chetlain Properties**  
**Thurrock U.K.**

Construction of 2 No. access tunnels at the Dolphin Development, constructed using NATM.  
**value £800,000**

***Sprayed concrete***

**Thames Water**  
**Barnet U.K.**

Design and construction of 25m diameter x 20m deep storm water detention shaft, using our own **Monoshot** design.  
**value £220,000**

***Sprayed concrete***

**London Underground Limited \***  
**London U.K.**

Strengthening of northern line tunnels under River Thames by application of purpose designed sprayed concrete lining.  
**value £213,000**

***Sprayed concrete***

**Railtrack**  
**Bradway, Sheffield U.K.**

Strengthening of brick lined tunnel using a combination of sprayed concrete, anchoring and cementitious grouting.  
**value £420,000**

***Sprayed concrete***

Old Station yard,  
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**Railtrack**  
**Rochester U.K.**

Various strengthening and support activities to Higham tunnel, an unlined chalk tunnel, using specialist shotcrete techniques, over a 5 year period.  
**value £270,000**

***Sprayed concrete***

**Railtrack**  
**Strood Tunnel U.K**

Re-profiling and strengthening to sections of Strood tunnel, An unlined chalk tunnel, using special adapted rail mount equipment, During an emergency possession.  
**value £370,000**

***Sprayed concrete***

**Lend Lease**  
**Dartford U.K.**

Twin road tunnels at Blue Water Development, 7.2m in diameter, constructed using NATM, lined with 250mm thick fibre reinforced concrete.  
**value £300,000**

***Sprayed concrete***

**London Underground Limited \***  
**London U.K.**

Jubilee Line Extension - Strengthening of brick arches with 350mm thick 50 Mpa concrete with microsilica.  
**value £225,000**

***Sprayed concrete***

**Railtrack**  
**London U.K.**

Waterloo Channel Tunnel Terminal -Strengthening of 30 brick arches totalling 12,000m<sup>2</sup>, working from the underside, using overhead sprayed concrete techniques.  
**value £205,000**

***Sprayed concrete***

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**Docklands Light Railway  
London U.K.**

Stabilisation of 120 year old brick lined tunnel with 100mm thick fibre reinforced concrete.  
**value £213,000**

***Sprayed concrete***

**Scot Rail  
Greenock, Scotland U.K.**

Relining of brick built Newton Street Tunnel, using resin anchored steel mesh and sprayed concrete. The lining was completed in 6 weeks, involving placing some 600m<sup>3</sup> concrete.  
**value £200,000**

***Sprayed concrete***

**British Airports Authority  
London U.K.**

Heathrow Airport Baggage Tunnel, constructed of six shafts 8m dia. x 16m deep and two chambers 14m dia. x 60m long, using NATM techniques – utilising the wet or shotcrete process primary and secondary lining. Settlement/convergence minimal, well within specified tolerances.  
**value £1.05 m**

***Sprayed concrete***

**South West Water  
Bristol U.K.**

Lining of sections of drill and blast interceptor sewer to provide temporary support.  
**value £300,000**

***Sprayed concrete***



**British Waterways Board  
Falkirk, Scotland**

Design and build of a new 7.0m diameter 170m long canal tunnel  
Constructed using side drift NATM techniques – utilising wet sprayed  
Concrete techniques.  
**value £1.8m**

***Sprayed concrete***

**Byera Hill Tunnel  
Government of St Vincent & Grenadines  
St Vincent, West Indies**

Design and build of an enlargement to an existing 3.0m diameter tunnel  
to 7.0m diameter 70m long road tunnel.  
Constructed on nightly possessions – utilising wet sprayed  
Concrete techniques.  
**value £340,000**

***Sprayed concrete***

**Park Hill Tunnel  
Government of St Vincent & Grenadines  
St Vincent, West Indies**

Design and build of an enlargement to an existing 3.0m diameter tunnel  
to 7.0m diameter 30m long road tunnel.  
Constructed – utilising wet sprayed  
Concrete techniques.  
**value £340,000**

***Sprayed concrete***

**Heathrow T5c Back Shunt Tunnel  
Ferrovial Agromen UK Ltd  
Heathrow.**

Excavation and completion of 30m long x 5.0m diameter tunnel  
Tunnel constructed using 200mm thick steel fibre reinforced  
shotcrete primary and secondary linings..  
Final finish +/- 5mm floated smooth.  
Sprayed using robotic nozzle  
**value £600,000**

***Sprayed concrete***

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