Project Portfolio

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Tunnels & Shafts
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
Sprayed concrete
value £1.1m

Chetlain Properties
Thurrock U.K.

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

Thames Water
Barnet U.K.

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

London Underground Limited *
London U.K.

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

Railtrack
Bradway, Sheffield U.K.

Strengthening of brick lined tunnel using a combination of
sprayed concrete, anchoring and cementitious grouting.
Sprayed concrete
value £420,000
Various strengthening and support activities to Higham tunnel, an unlined chalk tunnel, using specialist shotcrete techniques, over a 5 year period.  
\textit{Sprayed concrete}  
\textit{value £270,000}

Re-profiling and strengthening to sections of Strood tunnel, an unlined chalk tunnel, using special adapted rail mount equipment, during an emergency possession.  
\textit{Sprayed concrete}  
\textit{value £370,000}

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

Jubilee Line Extension - Strengthening of brick arches with 350mm thick 50 Mpa concrete with microsilica.  
\textit{Sprayed concrete}  
\textit{value £225,000}

Waterloo Channel Tunnel Terminal - Strengthening of 30 brick arches totalling 12,000m$^2$, working from the underside, using overhead sprayed concrete techniques.  
\textit{Sprayed concrete}  
\textit{value £205,000}
Docklands Light Railway  
London U.K.  

Stabilisation of 120 year old brick lined tunnel with 100mm thick fibre reinforced concrete.  

*Sprayed concrete*  
*Value £213,000*

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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 600m³ concrete.  

*Sprayed concrete*  
*Value £200,000*

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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.  

*Sprayed concrete*  
*Value £1.05 m*

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South West Water  
Bristol U.K.  

Lining of sections of drill and blast interceptor sewer to provide temporary support.  

*Sprayed concrete*  
*Value £300,000*
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

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

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

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