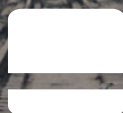


# Tunnels



**FREYSSINET**



## The Freyssinet Group

Freyssinet brings together an unrivalled set of skills in the specialist civil engineering sector. The company implements solutions with high added value in two major fields: construction and repairs.

Its services cover all types of civil engineering structures, from major bridge and tunnel projects to nuclear containment vessels, tanks, silos, hydraulic structures, buildings, etc.

Freyssinet is a subsidiary of the Soletanche Freyssinet Group, a world leader in the soils, structures and nuclear sectors.

*Cover photo: Channel Tunnel*



Download our general brochure at  
[www.freyssinet.com](http://www.freyssinet.com)

# Tunnels

With over 70 years' experience in repairing and strengthening tunnels, passages and underground facilities, Freyssinet leads the way in this field.

Freyssinet is an expert in repair solutions, with a technical department made up of civil and chemical engineers and materials and corrosion specialists. It implements a proactive policy for the development of repair solutions under the Foreva® label. Products developed under this label are laboratory tested and approved, guaranteeing Freyssinet's customers high-quality advice, products and application.

Freyssinet's offering covers the following areas:

**Structural repairs**

**Structural reinforcement**

**Renovation**

**Protection**

### Our primary concern: ensuring everyone's safety



Our "Sustainable Technology" signature expresses our commitment to offering our customers sustainable solutions that respect the environment, and to providing our employees with an environment where safety, risk management and innovation are a constant state of mind.

Managing safety on our sites is therefore our primary duty towards our employees worldwide, whatever the local regulations. We are fully committed to the goal of "Zero Lost Time Injuries"; our rules, our "non-negotiables" and our in-house tools ensure that this commitment will become reality.

**"Safety is the only option"**







Cracks  
Fire  
Water infiltration  
New operating conditions  
**Entrust your tunnels  
to the experts**  
Reinforcement  
Compliance with standards  
Repair  
Widening





## PUYMORENS TUNNEL

### FRANCE

#### Repair

The Puymorens Tunnel, near the border between France and Spain, has undergone major work to bring it into compliance with the latest standards. A full range of fire safety features has been installed, including heat protection, shelters and an egress passage, under the supervision of Freyssinet, which was responsible for the design and implementation of the tunnel safety improvement programme.



Freyssinet can operate as a general contractor or subcontractor to **maintain, repair, strengthen, renovate and protect your tunnels.**

Freyssinet's expert engineers, backed by its design office, can produce a detailed analysis of the extent of the problems in your tunnels in order to provide the most appropriate, durable solution possible.

### Maintenance and repairs

Throughout their service life or following an accident, structures require structural repairs. As necessary, Freyssinet can perform concrete reprofiling, install waterproof membranes and stapled coverings, treat cracks and water infiltration locations.

### Structural reinforcement

Freyssinet offers a number of techniques for reinforcing your structures, including shotcrete relining, shotcrete section reprofiling and additional prestressing or installing composite reinforcements, nails, etc.

### Tunnel renovation

Freyssinet offers a wide range of services to modernise or adapt your structures to comply with the requirements of new conditions or standards.

### Protection

To bring your structures into compliance with standards, Freyssinet can install fire protection in your tunnels and other underground facilities.

It also offers a variety of preventive and corrective techniques to protect concrete reinforcement against corrosion.

## GEOTECHNICAL OFFERING

Freyssinet teams also provide geotechnical services:

- Brace prestressing
- Tie rod production
- Nailing
- All types of bar (Freyssibar 500, 670, SD)
- Bar and tie rod testing & tensioning

Download our specific brochure at  
**[www.freyssinet.com](http://www.freyssinet.com)**







RN7 Orly Sud



Reyssole Tunnel



Reyssole Tunnel





SNCF Tunnel - Fréjus



Maurice Lemaire Tunnel - Ste Marie aux Mines



Ave Maria Tunnel - Boulogne



Sommery Tunnel



## North and South America

Argentina  
Brazil  
Canada  
Chile  
Colombia  
United States  
French Guyana  
Mexico  
Panama  
Peru  
El Salvador  
Venezuela

## Europe

Belgium  
Bulgaria  
Cyprus  
Denmark  
Spain  
Estonia  
France  
Hungary  
Ireland  
Iceland  
Italy  
Latvia  
Lithuania  
Luxembourg  
Macedonia  
Norway  
Netherlands  
Poland  
Portugal  
Czech Republic  
Romania  
United Kingdom  
Russia  
Serbia  
Slovenia  
Sweden  
Switzerland  
Turkey

## Africa and the Middle East

South Africa  
Algeria  
Saudi Arabia  
Egypt  
United Arab Emirates  
Jordan  
Kuwait  
Morocco  
Oman  
Qatar  
Tunisia

## Asia

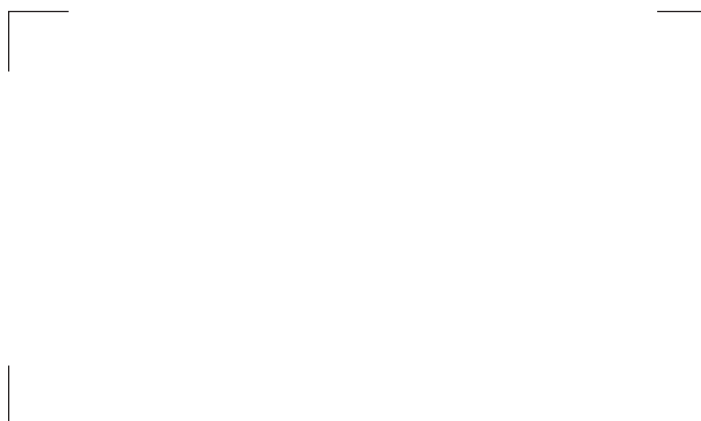
Hong Kong  
India  
Indonesia  
Japan  
Macau  
Malaysia  
Pakistan  
Philippines  
Singapore  
South Korea  
Taiwan  
Thailand  
Vietnam

## Oceania

Australia  
New Zealand



**FREYSSINET**  
SUSTAINABLE TECHNOLOGY



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