



HS2 Long Itchington Wood Tunnel (UK) Cross-Passage Waterproofing

Country	United Kingdom
Type	Railway
Client	High Speed Two (HS2) Limited
Main Contractor	BBV JV (Balfour Beatty, Vinci)
Execution of the work	Renesco UK Ltd.
Designer	Gall Zeidler
Construction Period	2024-2026

Project Description

High Speed 2 (HS2) is a planned high-speed railway running between London in the South and Birmingham in the North with approximately 200 km track.

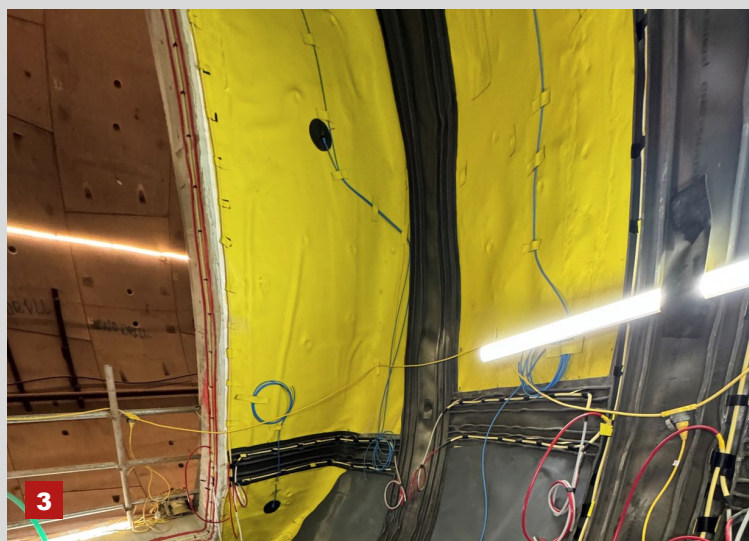
The Long Itchington Wood Tunnel belongs to the section lot N1-N2, which is 1.6 km (1 mile) long and runs under Long Itchington Wood – an ancient woodland – in Warwickshire. The section includes important elements, such as three cross passages, concrete finishing works, base slabs, and emergency & maintenance walkways.

Long Itchington Wood and neighbouring Ufton Wood are a single block of ancient woodland dating from at least 1600 AD. They are a site of special scientific interest with very complex ecosystems that have taken hundreds of years to establish. Long Itchington Wood Tunnel going underneath the woodland is an important part of HS2's environmental strategy to protect nature.

Scope of Service

Supply and Install of the waterproof membrane system, including all ancillary items for the SCL Cross Passages at the Long Itchington Wood Tunnel.

- Sheet membrane, PVC-P, 2 mm
- 1'200g/sqm PP protection geotextile
- Protection sheet membrane, 1.5 mm
- Water barriers, 400/30/6, PVC-P
- Termination at pre-cast-concrete-elements with adhesive strips/tapes
- Injection system, active control sockets, injection hoses, hydrophilic swelling profiles
- BA-Anchors



1. Cross-Passage
2. Running Tunnel
3. Cross-passage waterproofing collar