

Constitution Station

greisch

Avenue de Stalingrad, boulevard du Midi, avenue Fonsny and boulevard Jamar in Brussels (BE)

Complete architecture and stability mission in association with Systra and SumProject

Owner
STIB - Special study department

Architect
SM Greisch - Systra -
SumProject

Cost of the works
€175 M excl. vat

Studies
2013 - 2019

Execution
Works awarded

GC



Studies for structural work and finishing of the **new Toots Thielemans station** and tunnels (metro and tram) connecting to the existing infrastructure.

The works are as follows:

- **the Toots Thielemans station** (section C4a), under Avenue de Stalingrad and Boulevard du Midi, approximately 325 m in length;
- **the Lemonnier station** (section CH3), under Boulevard du Midi, approximately 250 m in length,
- **two metro tunnel sections:**
 - > a metro tunnel approx. 250 m long, partially under the Palais du Midi, between the existing track under Boulevard Lemonnier and the new station,
 - > a metro tunnel between the new station and the existing Midi station (approx. 275 m), under Constitution Square and Boulevard Jamar.

Features:

- tunnel bored under the water table, beneath existing buildings (optimisation of the alignment, choice of tunnel excavation methods, underpinning of the foundations of the Palais du Midi, etc.),
- preservation of the existing buildings and works (located above and close to the track Senne underground river, flood-water evacuator, existing tunnels, railway viaduct, etc.),
- limitation of impact on (pre)metro and tram operation,
- study of works phasing to limit nuisance and traffic disruption on the surface,
- deviation and/or integration of a major Vivaqua sewer node present in the tunnel right-of-way,
- coordination of the prior deviation of the utilities companies,
- appropriation of an existing tunnel for later use as a foundation for a multi-storey building,
- taking into account of the future platform walls.

