



Bulgaria Mall, Sofia

Bulgaria Mall will be the first shopping centre in Bulgaria which will be positioned as upper scale mall, focusing on the proper combination of medium to premium international brands together with the highest quality Bulgarian retailers. The mall will be

developed as part of a mixed-use retail and office project with approximately 130,000 m² of total build-up area. The shopping center will include four underground (parking and a hypermarket of approx. 5,600 m²) and four above ground levels with retail and entertainment.

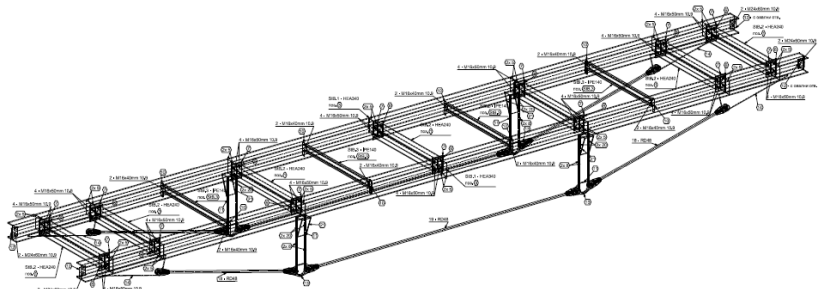
The parking will provide more than 1,100 lots with very convenient entrances to each underground parking deck. The office part, which will consist of an office high-rise tower and an office building, will exceed 25,000 m² of first class leasable area.

DETAN Tension Rod System

Bulgaria Mall, Sofia

Fact Box

- Years of construction:
2008 - 2009 -Stage I
2011 - 2012 -Stage II
- Investor
LSP Property
Salamanca Capital
- Architecture:
Studio 17,5
- Structure:
BIAS-M
β-consult 1
- General contractor
Cordeel Bulgaria
- Investment
~ 160 Mio EUR



48 mm diameter DETEAN Tension Rods made from hot-dip galvanized high grade steel S460 let the engineers find a safe and an elegant solution for the supporting structure

The footbridges are on three different levels, with spans of 18 m, 19 m and 20 m. The calculated loads which are applied on the whole structure resulted in a tensile force of around 60 tons in each tension rod. This provided a challenge to the structural engineers, because a slim and an elegant design was required. The DETAN Tension Rods came to be the ideal solution, combining excellent load bearing capabilities with small diameters.



Details for connecting the rods to the steel structure

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The finishing works are underway



The footbridges seen from ground zero

The use of DETAN Tension Rods proved to be a real success. They let the engineers make a slim design according to the investor's requirements. The assembly was considered to be a challenge as well. The precision with which the elements were produced and the ease of adjustment turned out to be the significant advantage of our system.