

Hubertus Tunnel, Rotterdam, Netherlands

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Integrated safety for structures



Aerial lift utilization to fix the Optical Strand in the tunnel

Monitoring of a structure during adjoining works

Client

City of The Hague:
Arts department Structures: Jetse van der Roest
Engineering office : Oesterbaai bv, ir. Joris Gribnau Grontmij, de Bilt.

Instrumentation

- 7 * 2m Optical Strands
- 2 Temperature sensors
- 3 Vibration Sensors
- 1 Monitoring Station

Structure

Construction of a new tunnel opened in 2008.
Length : 1 600 meters.

Context

Demolition of a barrack over the tunnel and start of construction works for the TPI Tribunal.

Client's Needs

The client needed to follow in real time the structure behavior during the adjoining works



Optical Strand's installation on the tunnel underface vault with it PVC protection

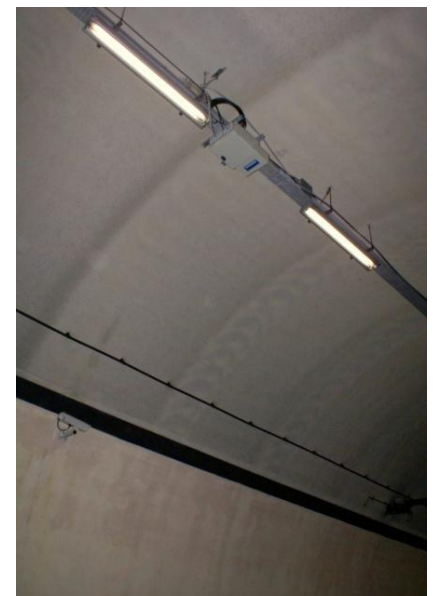
First results

Before the demolition works the Optical Strands will give the normal structure behavior.

After the demolition the Optical Strands will give the tunnel dynamics and statics deformation data.

Client's benefits

Thanks to OSMOS the client will be able to follow his structure behavior without stopping the road traffic.



The monitoring station installed on the vault of the tunnel

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