

COMPANY PROFILE & SELECTED REFERENCES

VCE Vienna Consulting Engineers ZT GmbH



VCE | Company Profile

VCE is an internationally active consulting office with more than 350 staff members, its headquarter in Vienna and several branch offices abroad.

VCF

- Mulmunlinn

VCE Competence Centres:

- Project management infrastructure
- Structural design buildings and infrastructure
- General consultant
- Project management & controlling
- Site supervision
- Health & safety
- Traffic design
- Track engineering
- Digital engineering
- Asset management & BRIMOS[®]
- Acoustics, dynamics, measurement & instrumentation
- Building monitoring
- Geotechnics & natural hazards
- Structural modelling

VCE | Company Profile

VCE

The focus of our company is on services in the fields of planning, static and structural design, project control, technical and financial control, check engineering, design management for all site progress related trades, detailed design, site supervision and project management, research as well as health & safety engineering.

Particular importance is attached to optimum 100 % support of our clients based on our knowledge and integrity.

Our priorities are maximum quality as well as adherence to delivery dates and the budget.



VCE | Company Profile Added Value – Why VCE?

VCE has successfully provided high-tech oriented consulting and project management services to clients in 69 countries worldwide completing over 6000 contracts – bringing value added engineering and innovative design solutions to many varied client organizations ranging from local building projects to national and major international civil engineering and building projects for private and public international clients.

Founded in 1960 in Vienna, VCE has developed into an international consulting firm with **350 staff members** offering a wide range of specialist engineering and technical services primarily in the following key sectors:

- infrastructure sector (including bridges, tunnels, waterways and railways)
- building and industrial sector (general design and management as well as specialized technological expertise)
- development sector (from research and development to feasibility and environmental studies, financial engineering to development aid)
- structural health monitoring (BRIMOS®) and Life Cycle Engineering
- digital engineering experts in all lines of business



VCE | Company Profile Our Services



BRIDGE DESIGN



Nanjing Yangtze River Bridge China / P.R. China

Railway link between Beijing and Shanghai. 21 stations along the line have been planned and eleven cities an route have populations of at least one million each. As part of the high speed railway line a new bridge crossing the Yangtze River near Nanjing is necessary. The bridge shall carry both high and middle speed passenger trains as well as freight trains. The arch truss bridge is 1,248 m long with two main spans of 336 m.

Client: CARS, Nanjing

Site supervision, structural design check (CAT III)



Botlek Bridge

A15 Maasvlakte–Vaanplein, Rotterdam, the Netherlands

WORLD'S LARGEST LIFTING BRIDGE

The very attractive bridge construction project takes place under difficult conditions. The setting up of both the foundation and the piers in water as well as the limited space to the existing lifting bridge represent a special challenge for design and execution. The bridge is planned as road, railway, cycle and pedestrian bridge.

The project across the river "Oude Maas" includes two lifting bridge spans, which can be separately lifted. The span lengths amount to 92 m each, the width of the cross section is approx. 50 m. The required height of lift is 31 m.

Client: A-Lanes A15

Tender design, preliminary design, permit design, detailed design, construction design, as-built design





EUROPEAN STEEL BRIDGE AWARDS 2016

Staatspreis Consulting 2015 Ingenieurconsulting

St

des Bundesministeriums für Wissenschaft, Forschung und Wirtschaf

UNDERGROUND STRUCTURES / CIVIL ENGINEERING



VCE Metro Projects Vienna Underground Network with VCE Projects

Metro Station U1/13 Favoritenstraße Metro Station U1/10 Trostraße Metro Station U1/8 Alaudagasse Metro Line U5/U2 Metro Section U1/12 Renovation of Main Line Metro Station U2/15 Aspern Nord, Metro Station U2/14 Hausfeldstraße. Metro Station U2/8 Stadlau, Metro Station U2/7 Donaustadtbrücke, Metro Station U2/3 Praterstern, Metro Station U2/2 Taborstraße, Metro Station U1 Praterstern, Metro Station U2 Schottentor. Metro Station U1 Großfeldsiedlung, Metro Station U1 Kagran, Metro Station U3 Enkplatz, Metro Station U3 Zippererstraße, Metro Station U3 Ottakring, Metro Station U6 Jägerstraße, Metro Station U6 Handelskai. Metro Station U3 Schweglerstraße, Metro Line U6 Spittelau-Floridsdorf





Doha Metro

Slab Track Design / N&V Prediction/Alignment, Doha, Qatar

In the scope of Phase 1 of the Doha Metro project four underground railway lines shall be constructed on a total length of 172 km. The track system is designed as ballastless track with Porr slab track system and some sections as mass-spring systems.

Client: PORR SBG HBK Joint Venture on behalf of Qatar Rail

Project development and system configuration, concept and detailed design total track system, alignment, noise and vibration protection design, measurements on site Al Khor South East Al Khor Stadium Al Khor South



BIM – Building Information Modelling



Baku Stadium Arches Arch Bridge Baku, Azerbaijan



The Bridge located next to the Baku Olympic Stadium spans over the Boyukshor Highway and the Heydar Avenue. The Baku Stadium Arches has an overall length of approximately 200 m and consists of two arches in longitudinal direction.

Client: Waagner Biro Bridge systems

Feasibility study

ENVIRONMENTAL CONSULTING



Environmental Consulting



VCE offers a comprehensive and innovative range of services for a sustainable improvement of the environmental conditions of society. We cover the whole environmental field including immission & climate protection, energy and environmental technology, building physics & room acoustics as well as material & life cycle analyses with our interdisciplinary team of specialists.

- Dynamic & Vibration Protection
- Vibration Protection Art Works
- Acoustics & Noise Protection
- Air-Pollutant-Analysis & Aerodynamics
- Carbon Footprint

Doha Metro – N&V Prediction Doha, Qatar

VCE carries out analyses on the requirement of emission reduction measures (e.g. mass-spring systems) for providing the protection targets regarding vibrations, ground-borne noise and airborne noise. Extensive measurements were performed on site as a basis for these calculations.

Client: PORR SBG HBK Joint Venture on behalf of Qatar Rail

Noise and vibration protection design, measurements on site





VCE Vienna Consulting Engineers ZT GmbH OFFICE VIENNA Untere Viaduktgasse 2, 1030 Wien T +43 1 897 53 39 F +43 1 897 53 39 . 9000

vce@vce.at www.vce.at

