



Successful construction with PERI



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VARIO wall formwork system successfully used for 7.80 m high walls with rough surface structure

Defence roundabout, Dubai



Contractor
Salini Costruttori S.p.A
Field Service
PERI Dubai



Tiziano Andreotti
Construction Manager:
"Personally I think that PERI in the world of constructions represents the ABC of formwork. For a lot of technicians PERI adds a value to their knowledge. In case of difficult projects PERI is able to support in such a way that is no problem for the contractor to handle it."

Today, the 3-km stretch between Trade Centre and the Defence Roundabout has changed dramatically. Sheikh Zayed Road was earlier known as the Defence Road. Dubai Defence Force was based in a military compound located at a roundabout which became known as Defence Roundabout. Now it's the first interchange on Sheikh Zayed Road, which is the main road in

Dubai leading all the way to Abu Dhabi. The main scope of the ongoing construction work is to improve the carriageways for the 1st interchange on Sheikh Zayed Road.

The bridge decking will be done while keeping the existing traffic flow as uninterrupted as possible. PERI supplies 900 m² TRIO wall formwork and 500 m²

VARIO GT 24 for casting retaining walls up to heights of 7.80 m. In order to achieve the architectural requirements of a rough surface structure, the flexible VARIO GT 24 elements are fixed with special double plywood. Height adjustment of the wall formwork elements is carried out by raising and lowering accordingly.

Visit us at the BIG 5 show
23rd to 27th November 2008
Dubai International Exhibition Centre
Zabeel hall, Stand T31



The illustrations featured in this brochure are photographs taken at particular time on a construction site. This is why the safety details shown cannot be considered as final.

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PERI L.L.C.
Formwork Shoring Engineering
Brashy Building, Office no. 212
Sheik Zayed Road
P.O. Box 27933
Dubai, U.A.E.
Tel.: +971 (0)4.33 94 494
Fax: +971 (0)4.33 94 434
perillc@perime.com
www.perime.com

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In order to provide our customers with the best know-how regarding our PERI Systems we offer them a wide range of different seminars and brochures.

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Safe solutions for walls and slabs delivered on time

Boulevard Plaza Tower 1 and 2, Dubai



Contractor
Samsung-Baytur JV
Field Service
PERI Dubai



Serhan Karakoc
Deputy Project Manager:
"Baytur has been working with PERI since 1991. Based on the experience from our previous projects, we already know that we will get reliable, fast and most importantly safe solutions from PERI with proper technical support and on time deliveries. Because of that we have decided to use PERI for our Boulevard Plaza Project."

The project named "Burj Dubai Development Buildings" will be re-named Boulevard Plaza 1 and 2 after its completion. The Boulevard Plaza Tower 1 with 36 storeys and the Tower 2 with 30 storeys, will contain a mix of offices, retail facilities, more than 2,100 parking spaces and pedestrian links to the Dubai Metro.

For construction of the reinforced concrete core of the building the ACS Automatic Climbing System was the first choice for Samsung-Baytur JV, so that forming, concreting and climbing

could be carried out without any crane support.

The reinforced concrete slabs were formed using large-sized PERI slab tables. These 8.50 m long tables were especially designed for the project using both the new TK and the common PERI swivel head for the girder-prop connection. For the non-standard floors, Samsung-Baytur JV is achieving a 7-day cycle period, 6-day cycles are planned once construction crews have reached the typical floors.

Especially designed PERI slab tables increase productivity and reduce labour costs.



The VARIO GT 24 external formwork climbs on ACS R platforms in advance and thus provides effective wind protection e.g. for reinforcement work.

The Downtown Dubai Development surrounds Burj Dubai Tower and the Dubai Mall.



Easy to understand and assemble PERI Systems for economical construction process

Ethihad Towers Development, Abu Dhabi

The Arabian Construction Company has signed the contract to build this multi-use development which is located adjacent to the Emirates Palace Hotel. It will comprise five towers ranging in height from 55-76 storeys. The project consists of four underground basement car parks for 2,900 cars, a podium for commercial and retail purposes with more than 18,000 m² and a hotel area with nearly 52,000 m².

Altogether there will be a total area of 512,812 m² after completion. The skeleton is a reinforced concrete structure with a curtain wall facade. By using on-site assembled VARIO GT 24 wall formwork for the elevator shafts, compact columns and walls along with PERI's MULTIFLEX system for edge beams and slabs, the contractor is able to maintain fast and efficient operations.

Contractor
Arabian Construction Co. (ACC)
Field Service
PERI Abu Dhabi



The project team



Mohsin Khater
Senior Project Manager:
"After visiting the bauma exhibition in Munich 2007 we decided to use PERI for our Ethihad project. What we can say until now is that the systems are easy to use."

Located on the Corniche, in front of the Emirates Palace Hotel, the Ethihad Towers project is an impressive and prestigious multi-purpose development. Construction started in summer 2006 and is scheduled to be completed early in 2010.



Efficient PERI systems, design and field service help to solve project requirements

Motor City, Dubai



Motor City is one of 45 mega projects in Dubailand, which is the world's most ambitious tourism, leisure and entertainment project designed to position Dubai as an international hub of family tourism. Motor City with its attractions of a FIA-sanctioned circuit, driving

school, carting track and a visionary park and permanent formula one theme park and much more, will be a year-round destination for motor sport fans worldwide.

Construction of this extraordinary project, with residential, business, sports and leisure opportunities, is progressing well and will be completed in 2009.

Al Futtaim Carillion is in charge of realizing the construction of the buildings with 2062 apartments and 34 villas. More than 300,000 m³ of concrete are required, which meant flexible and adaptable systems had to be supplied. The contractor is working with VARIO GT 24 formwork for the columns and

a total of 1,500 PERI slab tables for forming beams and slabs. Both systems are based on PERI's GT 24 girder. The concept of the GT 24 girder is to provide a combination of high loading capacities and the versatility associated with timber. The GT 24 can be used for wall, column, beam and slab solutions. Advantage: the girder can be nailed at any point without altering the properties of the structure.

Contractor
Al Futtaim Carillion
Field Service
PERI Dubai



**Paul Hopwood
Project Manager:**
"PERI is a very experienced and reliable company and always willing to help solve project requirements. Our operatives are experienced in constructing using PERI products. Also PERI provide an excellent service with design and field support."

PERI slab tables using swivelheads for the girder-prop connection added with MULTIFLEX GT 24 – an inexpensive, adaptable and fast solution for forming the balconies.



6m high PD 8 towers support the interchange formwork

Interchange near the airport tunnel, Al Nahda-Beirut Road, Dubai



Contractor
Yüksel Dubai Construction Co. L.L.C.
Field Service
PERI Dubai



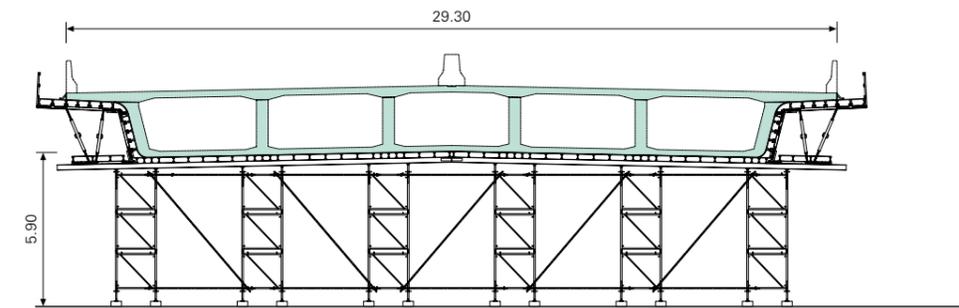
**Serdar Hekimoglu
Construction Manager:**
"I have been familiar with PERI's formwork systems for more than ten years now and started to work with it in Turkey. When I began working on jobsites in foreign countries, it was very easy for me to select my formwork systems. I brought existing materials from Turkey and replaced the missing parts easily according to the new project requirements. I did this for three new projects."

To ensure smooth traffic flow, the RTA (Dubai Roads and Traffic Authority) has assigned Yüksel to construct the AED 290 million interchange between Qusais and the airport tunnel. PERI's rental equipment stockyard in Dubai was able to supplement the contractor's own materials to provide an optimum environment to meet the individual project requirements. Thus, PERI formwork and shoring systems are used for both parts of the project, the bridge and the tunnel.

The bridge
The bridge, with its total length of 353 m, is constructed in stages: the first with 96 m and adjacent stages with 48.50 m (2x), 48 m (2x) and 32 m (2x). The bridge formwork is supported by a 6 m high PERI PD 8 shoring tower system, which has been designed for great heights and loads of up to 62 kN/leg. It safely transfers the loads of the formwork from the superstructure and the freshly poured concrete until the final strength has been achieved. The slab decking is done with

PERI MULTIFLEX using VT 20 girders. The wing walls and internal walls are done with VARIO GT 24.

The tunnel
The 621 m long tunnel underpass, which is constructed using the cut-and-cover method, consists of 20 tunnel segments with spans of 31 m each. To form the varying tunnel wall heights from 1.42 m to 8.45 m, the formwork crew uses the VARIO wall formwork system with six metre long GT 24 girders spliced with a 2.40 m extension.



The external web and cantilever formwork for the superstructure using VARIO GT 24 and MULTIFLEX on PD 8 shoring towers.



Cost-effective forming of differently sized columns

Highland Resort Villas, Abu Dhabi



The Highland Resort Villas Project – located close to the British Club – consists of 147 Villas, 128 will have a living area of 350 m² and 19 will get 1,280 m² in each case on two floors.

The choice of PERI as the formwork provider was determined by the requirement for a range of inter-related formwork systems to allow safe and speedy concreting

and striking. The need for flexibility, through easy and quick adjustment – amongst others – of the column formwork, was instrumental in the choice of the system. So NPC decided to use PERI LICO column formwork with the advantage to easily form the columns with different cross-sections. A special benefit for the site is that no crane is needed and all connection parts are permanently fixed to each element.



**Paul Majoor
General Manager:**
“We have chosen PERI formwork for this project as it was found to be the most cost-effective system, this together with the proven quality, technical backup and service makes it the perfect choice.”



Cross-sections up to 60 cm x 130 cm can be formed with centrally-positioned ties.



Because of the flexibility and the light weight of the elements, the adaption to different cross-sections can easily be done by hand.

Contractor
National Projects & Construction LLC
Field Service
PERI Abu Dhabi

Forming columns without a crane

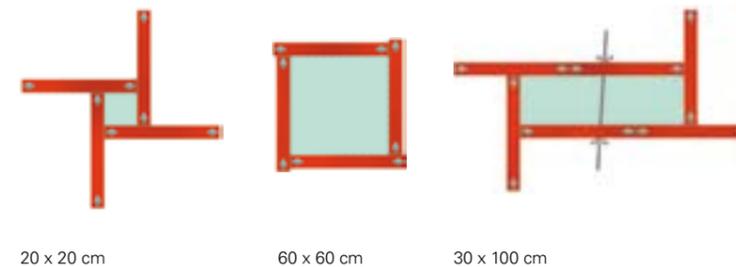
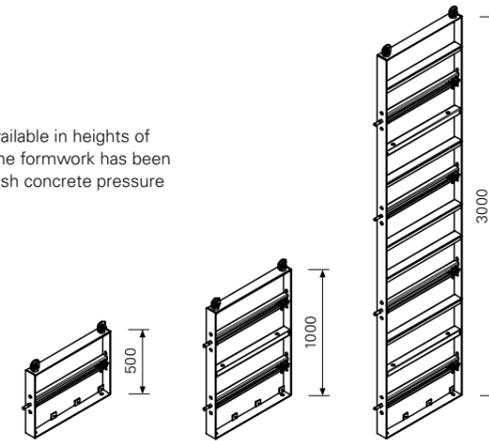
LICO Lightweight Column Formwork

LICO is the lightweight column formwork for cost-effective forming by hand.

The low individual weights of the elements allow assembly and dismantling by hand. This means that the formwork crew is still in a position to effectively use crane non-availability in a productive way.

The high permissible fresh concrete pressure of 80 kN/m² ensures fast concreting cycles and thus contributes to a very economical utilisation of the equipment.

LICO column elements are available in heights of 3.00 m, 1.00 m and 0.50 m. The formwork has been designed for a permissible fresh concrete pressure of 80 kN/m².



LICO is the lightweight column formwork for cross-sections of 20 cm x 20 cm up to 60 cm x 60 cm in 5 cm increments. With additional ties, shear wall cross-sections up to 60 cm x 130 cm are possible.

Practical details simplify the use and lower shuttering times

Eye bolts on all elements serve as load bearing points for moving with the crane as well as for element connections when extending. The chamfer strips are easily fitted on the elements – this saves on timeconsuming and cost-intensive nailing of conventional strips.



Captive column tie bolts and nuts are permanently attached to each element.