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NEWS
DUCTILE IRON PIPE SYSTEM

Information from the European Association for Ductile Iron Pipe Systems · EADIPS

Editorial

Dear readers,

In the June 2010 issue of the Newsletter, I would like to show you a variety of areas in which ductile iron pipe systems can be used. These are ductile iron pipes installed close to a D.C. tramway, their use as ventilation pipes in an area below high water level and their use with a very small height of cover. There is also a report on the new centrifugal casting plant at Duktus Tiroler Rohrsysteme GmbH in Hall.
Have a stimulating and enjoyable read.
Sincerely yours,

Raimund Moisa

Close to a D.C. tramway

Installation of ductile drinking water pipelines

Not very long ago, the new A tram line was opened as a rapid transit link between Angers and Avrillé in north-west France. Advantage was taken of the construction work to carry out a number of pipeline projects at the same time, among them one to install a water pipeline along the route of the tramway.

◆ For the drinking water pipelines the client, "Angers Loire Métropole", required a pipe material which would not suffer any adverse effects from stray currents in the area affected by the D.C. current used for the tramway. Ductile iron pipes (of the *vonRoll*ecopur type) with a polyurethane coating and polyurethane lining will meet this requirement. The polyurethane coating to EN 15189 provides protection against corrosion caused by corrosive soils including the electrochemical effects caused by stray currents. The internal protection provided by the polyurethane lining to EN 15655 ensures that the requirements for drinking water hygiene are also met. During the two-year construction period, 15,396 m of ductile iron pipes of wall-thickness class K 9 and of nominal sizes from DN 80 to DN 700 were installed.

Ductile iron sewer pipes laid with only a small height of cover

In the village of Schönborn, not far from Doberlug-Kirchhain in the Elbe-Elster district of Brandenburg, the L 60 secondary road is being rebuilt as a route through the village.

◆ 4 m of DN 500 sewer pipes to DIN EN 598 with the TYTON® push-in joint were installed on this occasion. With a very small height of cover, the lateral inlets also had to be connected in. This is something which can be done easily, and above all safely, with the standard commercial ductile saddles. The pipes had the tapping holes made in them before being laid and were laid already fitted with the saddles. For discharges into drainage ditches, the spigot ends of the ductile iron sewer pipes were cut at an angle matched to the slope of the ditch profile.

2011 German National Garden Show in Koblenz

Something else that needed to be done

For the 2011 German National Garden Show in Koblenz, the "Konrad-Adenauer-Ufer", the riverside promenade, is being given a new and forward-looking design between the "Elector's Palace" and the "Deutsches Eck". This redesign includes nine berths for Rhine pleasure boats designed to the latest specifications.

◆ In the past, the Rhine pleasure boats tied up at Koblenz have generated their electricity with their own auxiliary generator sets, thus emitting noise and exhaust gases. In the future this will be avoided by supplying them with electricity from the shore.
To supply the rising pontoons and the kiosks and admission booths which are planned, KEVAG (Koblenzer Elektrizitätswerk und Verkehrs AG), the electricity company, has built three underground transformer stations which are below the high water level of the Rhine.
These have to be totally sealed against water under pressure. Each transformer enclosure has two DN 500 ductile iron pipelines for the forced infeed and extraction of air. These run off from the enclosures below ground and end at an exposed point in six DN 700 ventilation chimneys. The pipeline situated at the lowest level can expect to be up to about 8.0 m below the level of the water. There are many similar cases where ductile iron pipes have, for decades now, been providing a very high level of safety both where water and sewer pipelines have crossed large rivers and where they have been laid parallel to such rivers. To stay safe they must remain pressure-tight against a positive external hydrostatic pressure – a functional requirement under product standard EN 598. It was this combination of safe leak tightness and strength provided by the material, and by the system, that persuaded KEVAG to opt for DN 500 TYTON® system ductile iron pipes to DIN EN 598 and the associated fittings.

DATES FOR YOUR DIARY

13–17 September 2010
IFAT, Munich, Germany
23–25 September 2010
BWK Federal Congress, Duisburg, Ger.
7 October 2010
5. Deutsches Symposium für die grabenlose Leitungserneuerung (5th German Symposium for Trenchless Pipeline Renovation and Replacement), Siegen, Germany
12–13 October 2010
figawa (Association of Gas and Water Industry Companies) Seminar, Bad Zwischenahn, Germany

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A new centrifugal casting plant

Duktus Tiroler Rohrsysteme GmbH is one of the technological trailblazers in field of producing centrifugally cast ductile iron pipes. It has given proof of this in the past by, for example, the development of the EMK converter and the introduction of the VRS push-in joint.

◆ The new centrifugal casting plant, whose inauguration took place in April 2010, combines the latest centrifugal casting technology with advanced process control; it can be used to produce ductile iron pipes whose wall thicknesses are accurate to tolerances within a very tight range. The new system is being used to produce 5 m long pipes in a range of nominal sizes from DN 80 to DN 200 and ductile driven piles. The capital investment of 6 million Euros is the largest single investment made to date at the Hall in Tirol site and is a signal to employees and customers of the great confidence that the owners have in the site and in the opportunities in the market for ductile iron pipe systems.