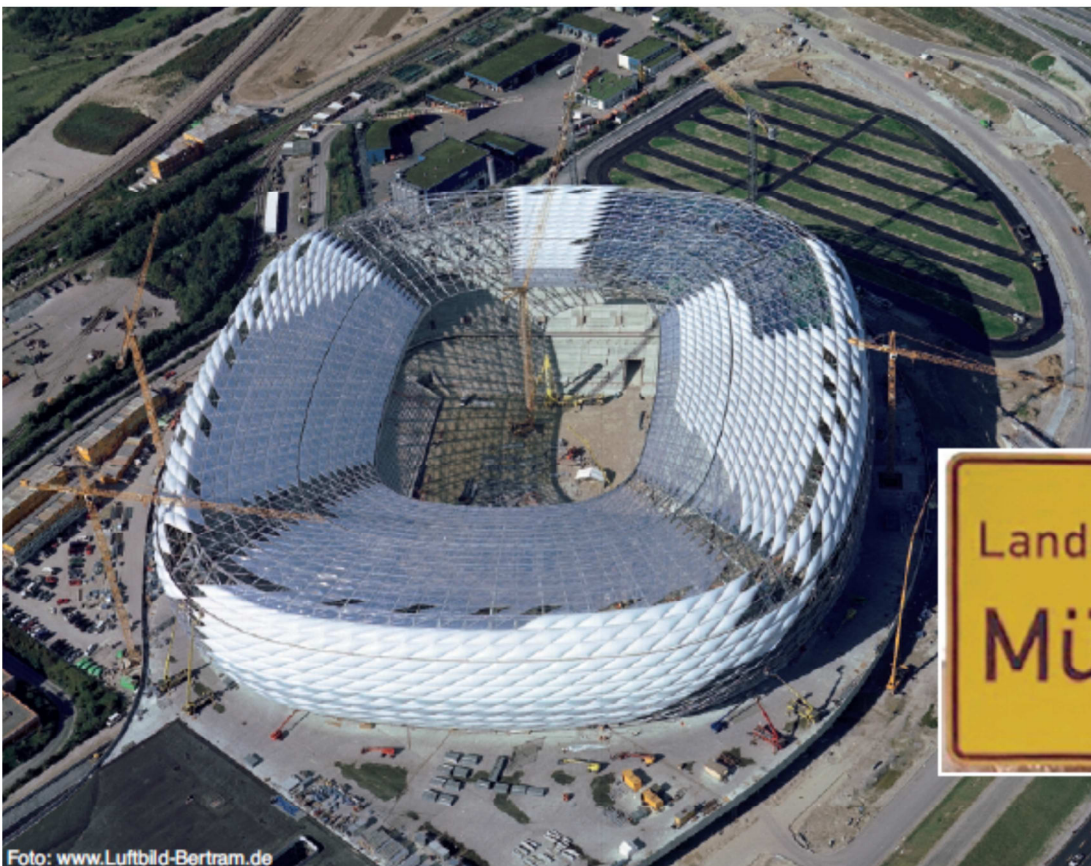


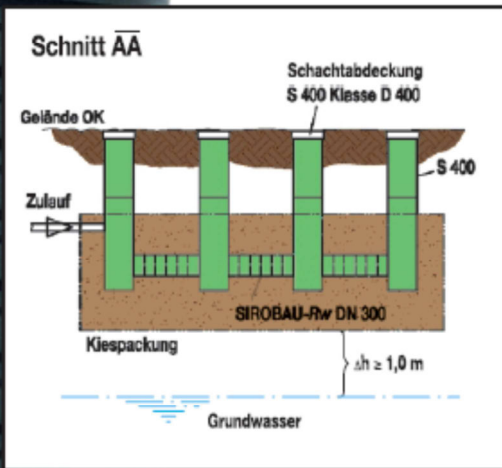
## The SIROBAU-Rw Storm Water Percolation System

### Site Report New Soccer Stadium of Munich

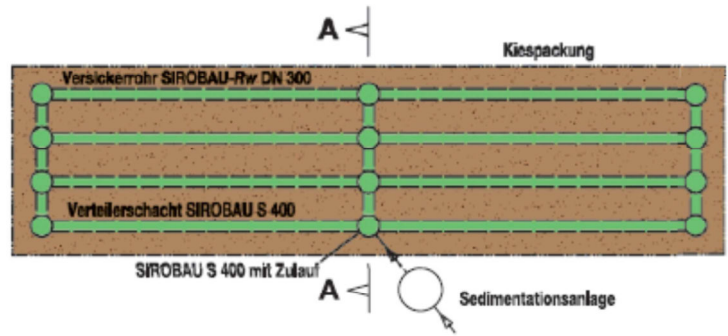
- **Construction Site** Soccer stadium Munich-North
- **Client/operator** München Stadion GmbH
- **Planner** Kulle & Hofstetter TGA Consulting, Munich
- **Building contractor** Überland Bau GmbH, Unterföhring
- **Building period** October 2003 to October 2004
- **Project** Storm water percolation through pipes and trench elements
- **Total route length** About 1,500 m
- **Pipe product used** Storm water percolation pipe SIROBAU-Rw DN 300
- **Connection of system** AQUATUB-Rw storm water sewer pipes and about 180 inspection and flushing chambers SIROBAU S 400







**Lageanordnung Rohrrigole (Beispiel)**  
12 Kontroll-/Verteilerschächte SIROBAU S 400



### Storm water percolation in the soccer stadium of Munich

By its new soccer stadium which is presently under construction in the north of the city, Munich will get ready for the Soccer Championship in Germany in 2006.

To provide adequate protection for the guests from bad weather, the terraces are completely sheltered. This results in very large catchment areas of rain water which has to be discharged in a reliable and reasonable way. The decision to let the water to be discharged percolate into the ground – which is possible thanks to the prevailing soil conditions ( $k_f$  value) – contributes to load reduction in the local sewer system and sewage treatment plant.

As part of the built-up drain fields were to be utilized as traffic areas, the SIROBAU-Rw system from PE-HD was chosen. This system uses pipes and trench elements for storm water percolation and is perfectly suited under maximum traffic loads as per SLW 60.

The ecological aspect which was taken into account by passing non-polluted rain and surface water directly into the ground water also

mattered with the choice of the raw material of the percolation system. SIROBAU-Rw percolation pipes and SIROBAU S 400 chamber components from HEGLER are manufactured from ecologically friendly PE-HD. So there is no danger of prejudice to the ground water by chemical residues.

The whole percolation system comprises 16 trench elements each of which consisting of a number of SIROBAU S 400 chambers (between 8 and 32), and a total of 1,500 m of SIROBAU-Rw pipes. The fact that pipes and chamber elements are perfectly harmonizing makes the percolation system a technically reliable and economical unit.

The system is completed by a number of practical fittings like cast-iron chamber covers of load class D 400 (suitable for truck loading). In case of lower load requirements, there are covers of classes B 125 (passenger cars) and A 15 (pedestrians).

From the very beginning of the project, the planning phase, professional advice was provided by the manufacturer of the products, ranging from assistance in dimensioning to effective guidance on the building site.



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