

Nussbaum live



Stade de Suisse Wankdorf Berne – the new Swiss national stadium

1:0 for Optipress!

Many things spring to mind when thinking about a sports stadium: dynamic soccer players and nervous coaches, fantastic goals, tens of thousands of spectators, exultant fans. But the Wankdorf Center is much more than a stadium – it is a multifunctional leisure, shopping and working complex of national significance. And, to ensure that everything functions smoothly, an efficient and ever-dependable water distribution system is of the utmost importance.

The Wankdorf Center comprises the «Stade de Suisse», a shopping mall, a gymnasium and a landmark building with training, commercial and conference rooms as well as a laboratory. It offers state-of-the-art infrastructure for events of every kind such as concerts, congresses, shows, presentations, major sporting events (from «Schwingen» [traditional Swiss wrestling] and gymnastics festivals up to motocross), shopping extravaganza,

business and training. The dimensions of the giant building are impressive: CHF 350 million total investment, a 4-year construction period, 1,200 rooms, 32,000 spectator seats in the stadium, 30 shops with a sales area of 14,000 m², 700 underground parking spaces, 5,300 m² of solar cells (the largest solar energy installation in Switzerland) and more than 30 km of sanitary pipework.

Well in

Optipress is optimal

With these statistics, it is hardly surprising that this is one of the largest building projects ever realized by the Grünig + Partner AG engineering company. It was thus apparent that a partner for the entire water distribution (drinking and fire-fighting water distribution) was called for, a partner capable of providing the required product range, with guaranteed delivery from stock at any time and possessing experience of major building sites: Nussbaum. With Optipress, the Olten-based company R. Nussbaum AG also has an installation system with compression joints up to DN 100 that offers great time and cost savings during assembly and, thanks to the SC (= security checked) contour, guarantees 100% reliability right from the installation. These were the qualities that were instrumental in the choice of Nussbaum products and services by the sanitary planners and the installers carrying out the job.

Optipress in the riser zones of the main distributors TZ 12



The cold water distribution system for the sports facilities incl. gymnasium

Water of every type

The water requirement for such a large and complex building is enormous as well as being extremely varied. A total of seven main distributors and countless sub-distributors with Nussbaum fittings including system separators, press fittings with the SC contour (the safety feature that enables unpressed press fittings to be identified immediately during inspection, thereby preventing future damage) in all sizes and stainless steel pipes supply all WCs and several kitchens on various floors, with their preparation facilities and dishwashers; the Coop Mega-store with chilled product displays, restaurant, kiosk and storage facility; thirty separate retail shops; as well as dressingrooms, showers and whirlpools for the sports operation. Besides, there is the landmark building whose tenants already include a secondary school and a vocational school as well as a biotech company. Even the grass, the stage of the soccer world, is watered by Nussbaum in-

The water heating system for the sports facilities incl. gymnasium



stalled

stallation systems (without fine distribution). To meet these complex needs, cold, hot and circulation water are called for, specially prepared water (produced by softening and reverse osmosis, for example), emergency cooling water and fire-fighting water. The latter alone accounts for half of the entire pipework length (15 km) and is essential for the safety of both employees and visitors. With five supplies from outside and four independent, yet interlinked circuits, interruptions to the supply caused by faults or building work can be prevented. The stringent requirements in respect of water quality mean that – with very few exceptions – stainless steel pipes and red brass fittings are used.

Six installation companies, one system supplier

Imagine the scene for a moment: as many as 1,000 craftsmen at a time scurrying through the Wankdorf Center's many rooms and corridors, trying to get the project

finished on schedule. At times, six sanitary installation companies from the Berne region (see «Those involved in the construction») had between 30 and 50 fitters on site to deal with this area of the building services. R. Nussbaum AG formed the common denominator, so to speak, for all six companies and was able to rely on complete customer confidence. In such cases, the philosophy practiced consistently at Nussbaum for many decades pays dividends: its closeness to the fabricators and comprehensive availability to deliver within 24 hours. The chain reaction brought about by a delivery delay in these logistical olympics hardly bears thinking about. Optipress, the quality product manufactured in-house, assists these superior delivery performances thanks to press-fit technology and the comprehensive product range from taps to press fittings in all sizes, in red brass or stainless steel.



*Optiflex distributors for commercial kitchens
1 to 4 on the ground floor*

The main water distributors TZ 12





Members of Grünig + Partner AG and all sanitary companies involved in the reconstruction of the «Stade de Suisse Wankdorf Berne»

The sanitary planner

Grünig + Partner AG has been active in the field of building services since 1977 offering consultative, planning and engineering services, and coordinates the specialist areas of heating, ventilation, air conditioning, refrigeration and electrical systems. With a team of 13 specialists, Grünig + Partner sometimes also adopts the role of the lateral thinker in order to provide the best possible advice to the client. Involvement in technical committees and associations as well as basic and advanced training are seen as a matter of course for the company.

Those involved in the construction

Client:

Miteigentümergeinschaft Wankdorf (Coop, SUVA, Winterthur Insurances)

General contractor:

Marazzi Generalunternehmung AG, Muri

Sanitary planner:

Grünig + Partner AG, Liebefeld-Berne

Sanitary installers:

Adolf Krebs AG, Wabern
 Bären-Sanitär AG, Wabern
 Kasteler-Guggisberg AG, Berne
 Ramseyer und Dilger AG, Berne
 W.+H. Messerli AG, Berne
 Walter Weber AG, Ostermündigen

Start of construction:

2001

Completion:

30 July 2005 (Stade de Suisse)

24 August 2005 (Wankdorf Center)

R. Nussbaum AG

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The hot water distribution with feeders to the Coop Megastore refrigerating plant

