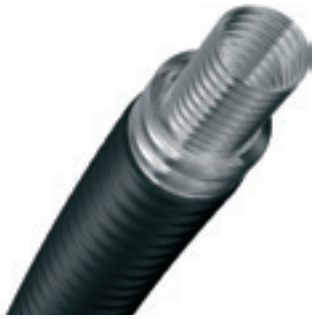
One flew over the Augsburg clinic

FLEXWELL®-Safety Pipe used as fuel pipe for refueling the Christioph 40 rescue helicopter



Dipl.-Ing. Udo Weigl
WJF Ingenieur-
gesellschaft bR

"In September 2011 we were authorized to plan the helicopter tanking cabinet for the Augsburg Clinic. After the job-site inspection we were faced with tight space in the supply shaft up to the fourteenth floor and from here to the place of the tanking cabinet. We quickly came to the point that we should consider a flexible, double-walled pipe system with permanent monitoring.

The FLEXWELL®-Safety Pipe with its high quality construction and the easy laying confirmed our decisions at its best."

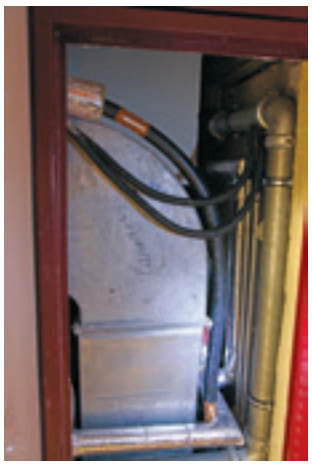
Christoph 40 rescue helicopter coming in for a landing

As a hospital providing the highest level of care, the Augsburg Clinic houses nearly all medical specialties under a single roof, serving around two million people in its catchment area. The Clinic is not only the teaching hospital of the Ludwig Maximilian University of Munich, but also the home of the Christoph 40 rescue helicopter.

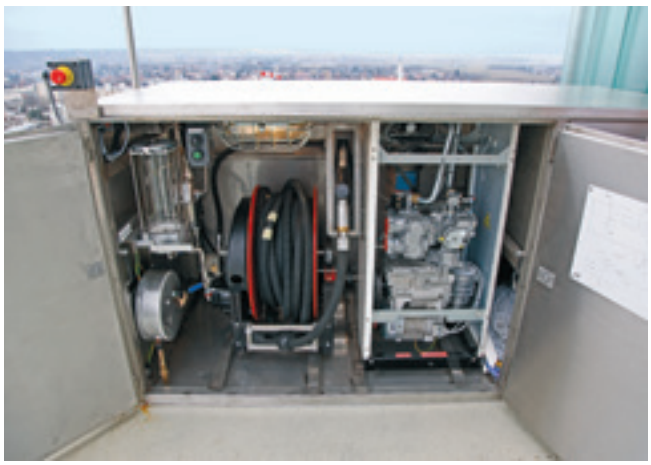
Germany's highest air rescue base located on a building has been constructed 58 meters above the ground on the top of the Augsburg Clinic building. A helicopter landing pad has been built on top of the fourteenth floor of the hospital for ADAC's (Allgemeiner Deutscher Automobil Club, the German equivalent of AAA) Christoph 40 rescue helicopter. The landing pad towers an additional three stories above the building and has room for another helicopter.

In order to guarantee an unrestricted supply of fuel to the helicopter, a fuel pipe had to be laid both vertically and horizontally through the

Laying the pipe in the trench



Despite tight conditions in the building: pipe laid without molded parts



Tanking cabinet with Jet A-1

Solutions for the future

BRUGG PIPESYSTEMS
Flexible solutions

FLEXWELL®-Safety Pipe used as fuel pipe for refueling the Christioph 40 rescue helicopter

existing building. These conditions brought with them various fire-protection and environmental-protection requirements and also limited the selection of pipes available to the building owners.

For the transport of Jet A-1 had been 245 m FLEXWELL®-Safety Pipe type FSR 39/60 (DN 32) laid in three phases of construction.

In the first phase of construction, 100 meters of safety pipe will be laid from the underground fuel tank adjacent to the building into the basement level of a 50-meter-tall supply shaft in the Clinic. The second phase of construction will see an additional 50 meters of safety pipe laid vertically from the basement level of the supply shaft into the fourteenth story – up to 250 meters would be possible with no problems.

From there the line will first run 50 meters nearly horizontally through two rooms. Additional rooms must be crossed and secured with wall flanges in accordance with fire-protection requirements.

The termination of this section of pipe on the fourteenth floor is located under the fueling system on the seventeenth floor. From there, the pipe will rise another approximately 12 meters into the tanking cabinet.

All changes of direction had been solved without molded parts. The helically-corrugated construction of the pipe system allows even small bending radii.

The individual lengths of pipe were delivered to their respective locations in the building by elevator and then connected with monitoring components. Moreover, the entire system will constantly monitored for proper function with a leak detector.

To contact us and for further information, please fill in the following details and send them by fax to +49 (0)5031 170-170.

❏ Please send me detailed information material
❏ I have a project I am currently working on and would like to speak to you personally

Sender

Company:

Contact person:

Telephone:

eMail:

Street/No.:

Postcode/Town:

Company stamp

BRUGG Rohrsysteme GmbH
Adolf-Oesterheld-Straße 31
D-31515 Wunstorf
phone +49 (0)5031 170-0
fax +49 (0)5031 170-170
info.brg@brugg.com
www.brugg.de

A company of the BRUGG Group

BRUGG PIPESYSTEMS
Flexible solutions