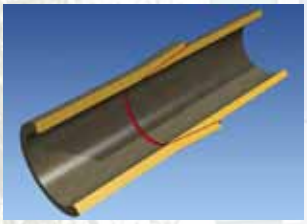

Taper/Taper adhesive-bonded joint

Hot Water for District Heating using Bondstrand® 2400 GRE pipe and fittings

Hódmezővásárhely was the first city in Hungary where Bondstrand Glassfiber Reinforced Epoxy (GRE) pipe was used for thermal water. In 2003, over 4000 meters of GRE pipelines were installed for the hot water transfer to the city's swimming pool (Zalaegerzeg project). Due to increasing gas prices, the municipality decided also to make more use of the hot water for district heating.

The first phase of this investment includes water heating for the central heating plant for a housing estate, a technical High School and a new shopping center.

Scope of supply

Bondstrand pipe and 95 elbows and fittings, adhesive; assembly tools and training were supplied to the subcontractor.

Advantages

- Reduction in installation costs and time
- Expected long term service life 30 years
- Corrosion resistant
- Maintenance free
- Light weight material
- Low thermal conductivity

Bondstrand GRE pipe have an extremely low thermal conductivity. Because of this characteristic, compared to traditional steel piping systems, thermal losses are kept to a minimum and therefore initial temperatures of the heating system can be lower, having a direct effect on the energy costs. Also, less insulation material was required.

Project

Hódmezövásárhely Cascade, Phase I - Hungary

Client

Municipality of Hódmezövásárhely - Hungary

Pipe system

Bondstrand 2416 with Taper/Taper adhesive-bonded joints

Diameter:	6 inch (150 mm)
Quantity:	2.600 meter
Heat insulation:	PU foam in 10" (250 mm) PE pipe jacket

Operating conditions

Operating pressure:	6 bar
Design pressure:	10 bar
Test pressure:	16 bar
Operating temperature:	90 °C
Design temperature:	100 °C

Installation date

October, 2007

CH7276 supersedes FP 984 - November 2012