

ELGEF Plus

Plastic piping systems enable a unique zoo experience

Zoo Zurich relies on ELGEF Plus by GF Piping Systems to ensure a smooth operation of the Masoala Rainforest.

A „miniature rainforest ecosystem” thanks to the ELGEF Plus electrofusion system

The zoo is located on the Zürichberg, a hill above the Swiss city of Zurich. Here, visitors can experience over 5,400 animals belonging to around 375 species. To ensure a smooth operation of the different habitats, the zoo requires thermoplastic piping systems for various applications, including a sustainable heating installation for a very special ecosystem. GF Piping Systems supplied ELGEF Plus as a jointing technology.

Project background

The Masoala Rainforest is seen as a milestone for the zoo. In the “rainforest ecosystem”, visitors get to see different animals living in their natural environment. It is the largest in Europe and is cooled and heated with an especially environmentally friendly installation. Most of the thermal energy is provided by 50 earth probes with a depth of 250 meters as well as a heat pump. While this energy was previously transported with a metal piping system, the zoo experienced issues with corrosion as well as pitting and therefore decided to implement a thermoplastic system instead. ELGEF Plus was selected as a jointing technology.

Selected technical solution

ELGEF Plus is a modular range for pressure piping systems made of polyethylene and was developed for water, gas, and industrial applications. Zoo Zurich installed a complete solution including tapping saddles, ball valves, elbows, and reducers. The components are corrosion-free, chemically resistant, lightweight, and have a long service life. In addition, Track & Trace adds transparency.

Achieved improvement

The ELGEF Plus components were easy to install thanks to the electrofusion system and ensured safe and reliable pipe connections. For Zoo Zurich, the durability of polyethylene played an important role. The corrosion-free material does not only lower operational and maintenance costs, but at the same time downtimes in the Masoala Rainforest can be prevented. This benefits both the animals and visitors. Finally, the zoo selected ELGEF Plus due to extensive and positive experiences with products by GF Piping Systems.

Where next?



ELGEF Plus is part of a heating system for the Masoala Rainforest – the largest of its kind in Europe.



Zoo Zurich has extensive experience with products by GF Piping Systems and appreciates the corrosion-free and durable materials.

Customer benefits

- **ELGEF Plus is a flexible and modular solution for pressure piping systems made of polyethylene.**
- **The electrofusion system provides a simple and fast installation as well as safe connections.**
- **Due to the material properties of polyethylene, ELGEF Plus is corrosion-free and therefore durable and cost-effective.**



Your contact

Georg Fischer Piping Systems Ltd
Ebnatstrasse 111
8201 Schaffhausen / Switzerland

Telephone +41 (0)52 631 11 11
mail@georgfischer.com
www.gfps.com

The information and technical data (altogether “Data”) herein are not binding, unless explicitly confirmed in writing. The Data neither constitutes any expressed, implied or warranted characteristics, nor guaranteed properties or a guaranteed durability. All Data is subject to modification. The General Terms and Conditions of Sale of Georg Fischer Piping Systems apply.

