

ELGEF Plus – Big Dimensions

Highest level of safety for fire fighting water pipes

Underground extinguishing water pipes made of polyethylene
Rhineland-Palatinate, Germany

Reliable firefighting solutions:
FM-approved, welded
PE pipe components

Simple, safe and cost-efficient.

Fire protection plays a key role in commercial buildings. Numerous structural measures need to be implemented in order to fulfil the applicable regulations and minimize the risk of damage in case of fire. To ensure a reliable and adequate supply of extinguishing water in case of fire, underground networks of welded pipelines from non-corrosive polyethylene are most commonly used today.

Project background

Closely spaced building parts encourage the spread of flames in case of fire and often lead to significantly increased damage or total loss. This is the reason why an industrial company from Germany decided to install, as a precautionary measure, a new fire protection system with an extinguishing water storage system. The idea of equipping the new facility with a larger capacity extinguishing water supply and connecting it to the existing system emerged in collaboration with GF Piping Systems during the planning phase. The commissioned piping constructor had to install the new lines in just a few weeks during ongoing production.

Chosen technical solution

The search for an optimum solution led to the reliable and FM-approved polyethylene components from GF Piping Systems. The new supply lines (d160 mm to d500 mm) connect the new extinguishing water tank to the existing storage and production buildings via various branches routed underneath the road.

Improvements achieved

"This option means the company is not reliant upon the local water supply. It also reduces the insurance premium due to the additional safeguards", explains Thomas Schmitt, technical sales consultant responsible at GF Piping Systems. Thanks to the use of FM-approved systems, the building insurer is able to downgrade the fire risk and cost savings for the industrial operation can be achieved.



MULTI/JOINT 3000 Plus: Fast and safe material transition, also for DN 500.



Simple and reliable: The ELGEF Plus electric welding system matches welding machine, tools and fittings to one another.

Customer benefits

- Corrosion and sediment-free fire fighting water networks from polyethylene guarantee minimum pressure loss and ensure maximum pump pressure in case of fire.
- FM-approved* components from d90 mm to d630 mm offer cost benefits for insurance protection.
- Special spigot fitting design features facilitate and speed up installation.

* The manufacturing processes and the in-house testing facilities at GF Piping Systems have been inspected by FM Approvals, and are audited on a frequent basis to ensure compliance and continuous improvement.

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