



FUTURE PIPE INDUSTRIES B.V.

Glassfiber Reinforced Pipe Systems

Fire mains LNG Terminal Zeebrugge, Belgium

Location

LNG Terminal
Zeebrugge, Belgium

Completed date

1986-1992

End User

Distrigas Belgium



Contractors

Electrobel - Tractebel
Mannesmann Anlagenbau GmbH, Düsseldorf

Consultants

Electrobel - Tractebel
Mannesmann Anlagenbau GmbH, Düsseldorf

Description

This LNG Terminal, one of the largest in Europe, was built in 1986. For the underground fire fighting systems, glassfiber reinforced epoxy has been used from the start, especially the ring main of DN1000, was special, for this type of applications. For both the under- and partly aboveground extensions are being built in 1991-1992.

Scope

Our scope included:

- Engineering
- Fabrication and spoolbuilding
- Supervision

Pipe System

Several pipe systems have been supplied ranging from 50 mm to 1000 mm. The underground lines have been supplied in 12,5 bar, with rubber seal lock joints. Total project value up to 1999 has been approximately USD 2,100,000.

Advantages

Due to the high corrosion resistance of GRE in this environment and in combination with the weak soil conditions (soil settings) the installed GRE systems prove a reliable fire water system. Also the total installed costs of GRE systems, in combination with no maintenance were a major argument for Distrigas to use GRE for this plant.