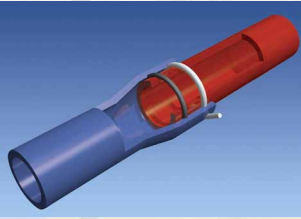
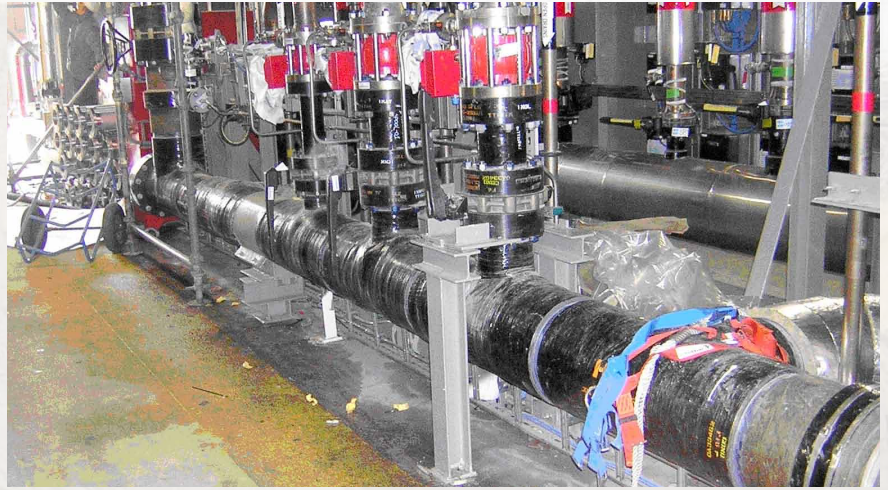


Taper/Taper adhesive-bonded joint



Key-Lock® mechanical joint



## Firewater and Utility Lines for Fluxys LNG Terminal using Bondstrand® GRE pipe

As a result of contracts signed by Fluxys with Qatar Petroleum/Exxon Mobil, Distrigas and Tractebel Global LNG, Luxys LNG decided in mid-2004 to increase their LNG capacity from 4,5 million m<sup>3</sup>/year to 9 million m<sup>3</sup>/year. In August 2007, the construction phase was completed and the 4th LNG dome was set into operation. Based on successful experience with Glassfiber Reinforced Epoxy (GRE) for seawater applications, the selection of Bondstrand GRE became the obvious choice.

### Scope of supply

As result of the cooperation between Amerplastics and S.M.T., NOV Fiber Glass System's distributors in The Netherlands and France, respectively, the Purchase Order was awarded to both companies for delivery of Bondstrand the pipe systems:

#### Amerplastics

Prefabrication and erection on site

#### NOV Fiber Glass Systems B.V.

Stress analysis

AWWA calculations

#### SMT

Material supply and study

#### SN Technigaz (ENI/Saipem Group)

Engineering

Procurement

Pre-commissioning and Commissioning

### Advantages

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

### Project

Fluxys LNG Terminal First Extension Project - Harbour of Zeebrugge, Belgium

### Client

SN Technigaz (ENI/Saipem Group) France

### Pipe system

Bondstrand 3416 with Taper/Taper adhesive-bonded and Key-Lock mechanical joints

Service: Fire mains and utility lines

Diameter: 2 - 32 inch (50-800 mm)

Total quantity: 3919 meter

### Operating conditions

Operating pressure: 16 bar

Design temperature: 93 °C

Test pressure: 24 bar

### Installation date

2006 - 2007