

THE LYNGDAL PROJECT

Clean and sustainable heat for the city of Lyngdal



Flexalen PB Pipes



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GOALS

The picturesque municipality lies in the south of Norway, where a project was planned to redirect waste heat from a wooden floor factory to **provide sustainable heat** for parts of the town. In order to achieve this, an **efficient and reliable district heating network** had to be created.

To use the waste heat from a wooden floor factory to create a new, long lasting and reliable district heating network, and connect it to the town of Lyngdal at minimal disturbance and environmental impact.

PROJECT PROCESS

The project was divided in three sections:

1. Connection of the heating station.
2. The connection of part 1 with the Berry Alloc wooden floor factory. The heating station was to be moved from an industrial area to the factory for back-up.
3. New connections to the school, sports center, and elderly home in Lyngdal.

The project included the welding of 11.8 m sticks outside of trenches in sections of up to 5-8 sticks per line, including elbows on each branch up-flow/down-flow. These flexible sections, ranging from 30 m to 70 m, were placed into the curved trenches without the need to install direction-changing fittings.

This resulted in a 60% reduction in installation time compared to the installation time of insulated steel pipe solutions.

The flexibility of the PB pipes allowed for the passing of the main access road, minimizing both the installation time and the impact on the Lyngdal community. This ensured the well being of local citizens.

During the work, and prior to the interconnection with part two, a solution for the heat distribution for the final section was implemented.

Thermaflex ensured the training of Pilegaard-Henriksen welders as well as the provision of on-site support for installations. This was maintained for the entire duration of the works.

PROJECT INFORMATION

- 📍 Lyngdal, Norway
- Duration of **10 Months**
- **40 % reduction** of total investment costs
- **60 % reduction** of installation time

APPLICATIONS

- Heating District Network

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RESULTS

The installation of the pipe system was done with **minimal impact** on the land, bushes and trees in the surrounding area, and so **substantially reduced** the reconstruction costs of green spaces.

The installation was also **3 to 4 times faster** compared to traditional systems.

The total cost of the installation was also reduced by approximately 25%. Additional unexpected extra costs could be avoided as obstacles could be easily bypassed because of the **flexibility** of the material, simply placing them in curved trenches.

The total investment cost (materials, installation and civil works) was reduced by approximately 40% compared to the estimated total cost of the project when completed with traditional systems.

