

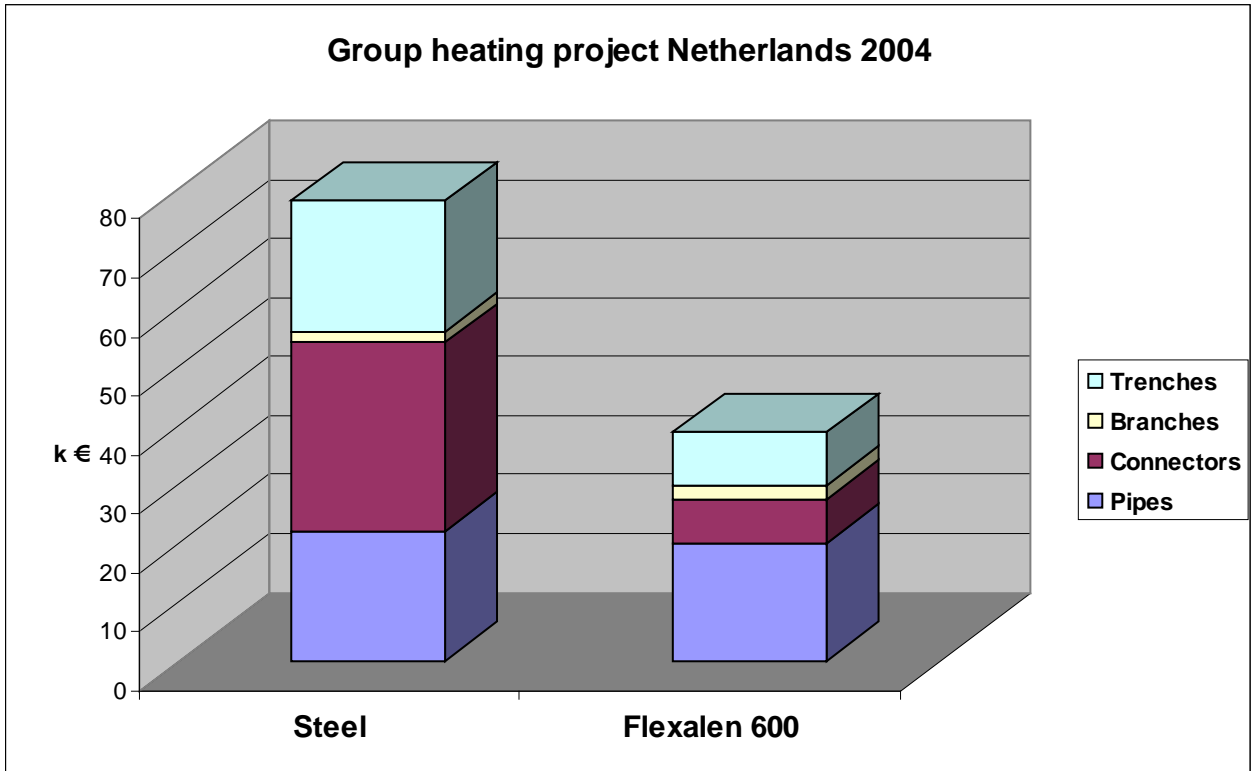
Cost comparison

1) Basic Information

This cost comparison is based on a combined Heating and Plumbing project, realised in 2004 in the Netherlands. The costs were compared by the Investor, the Dutch District Heating Company NUON. The traditional steel pipes (pre-insulated single pipes acc. to EN 253) were compared with Flexalen 600 double (up to 2xd63) and single pipes (up to d110). Branch and socket connections were welded in both systems.

Prices include material and installation.

2) Grafic overview



3) Results

The comparison of **Pipes** only including installation gives an equal level. Flexalen in comparison is installed in only 30% of the time used for steel pipes.

Connectors (Straight pipe-to-pipe connections) are very much in favour for Flexalen as pipes are supplied in coils of up to 150mtr.

Branches (Tees) are cheaper with steel pipes mainly because Flexalen prefers the use of electrofusion fittings for safety reasons.

Trenches are cheaper again with Flexalen, because less connections need to be made in the trench (=smaller trenches), quicker installation and refilling of the trench.

4) References/Standards

All installations are done by trained installers only to ensure maximum safety and quality of the networks. KIWA/GASTEC is one certified training institute for Flexalen pipes and fittings. Trainings are also offered by Flexalen/Thermafex local companies and distributors.

Technical data are subject to alteration.

