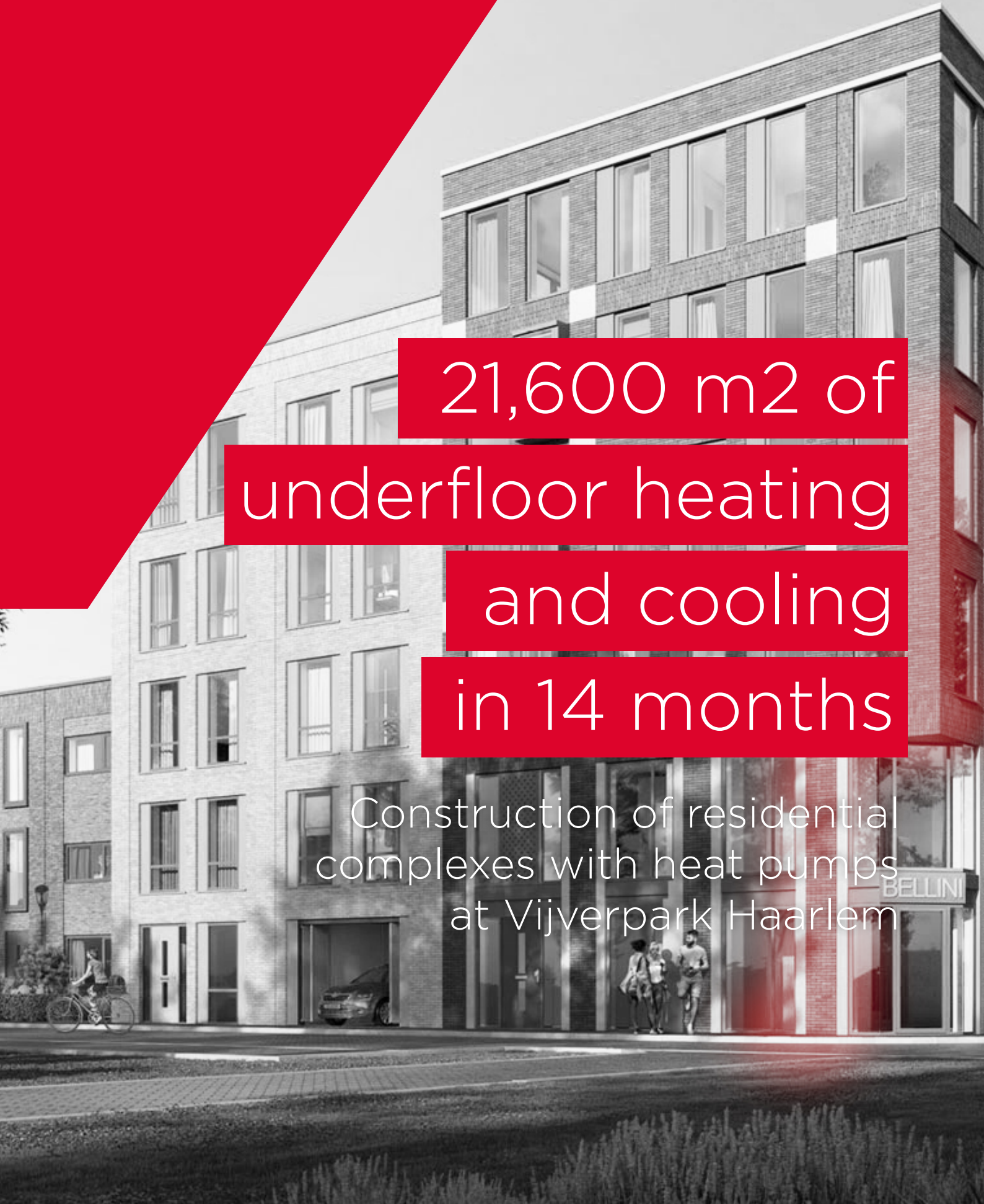


21,600 m² of
underfloor heating
and cooling
in 14 months

Construction of residential
complexes with heat pumps
at Vijverpark Haarlem



general overview

The project at a glance



Customer:
Terberg Totaal Installaties



Type of building:
residential complexes



Duration:
14 months



New construction



Water heat pumps



270 residences
(intermediate and corner flats
and semi-detached houses)

focus on the customer



Terberg Totaal Installaties is an **installation company** which has been operating for 75 years. It works in every facet of installation technology in a variety of sectors. These include **design, assembly, electrical engineering**, and **safety**.

This company specialises in:

- electrical engineering
- mechanics
- security
- inspections
- maintenance services





Their teams work throughout the **Netherlands**.

a large-scale project

9 towers, 270 flats, 21,600 m2

We helped Terberg Totaal Installaties on a large **construction project** in Vijverpark Haarlem. They had decided to use water **heat pumps** for these residences; they needed help to design the underfloor heating and find the right products. In total, there were 33 heat pumps for 9 towers.

What is at stake in such a project?

-  With a **short construction deadline**, the conception and design stages had to be completed quickly.
-  The **SHC installation** also had to be done efficiently.
-  The project had to be completed within a tight budget.
-  Around 21,600 m2 of space had to be covered in a total of 9 towers.

within a tight timeline

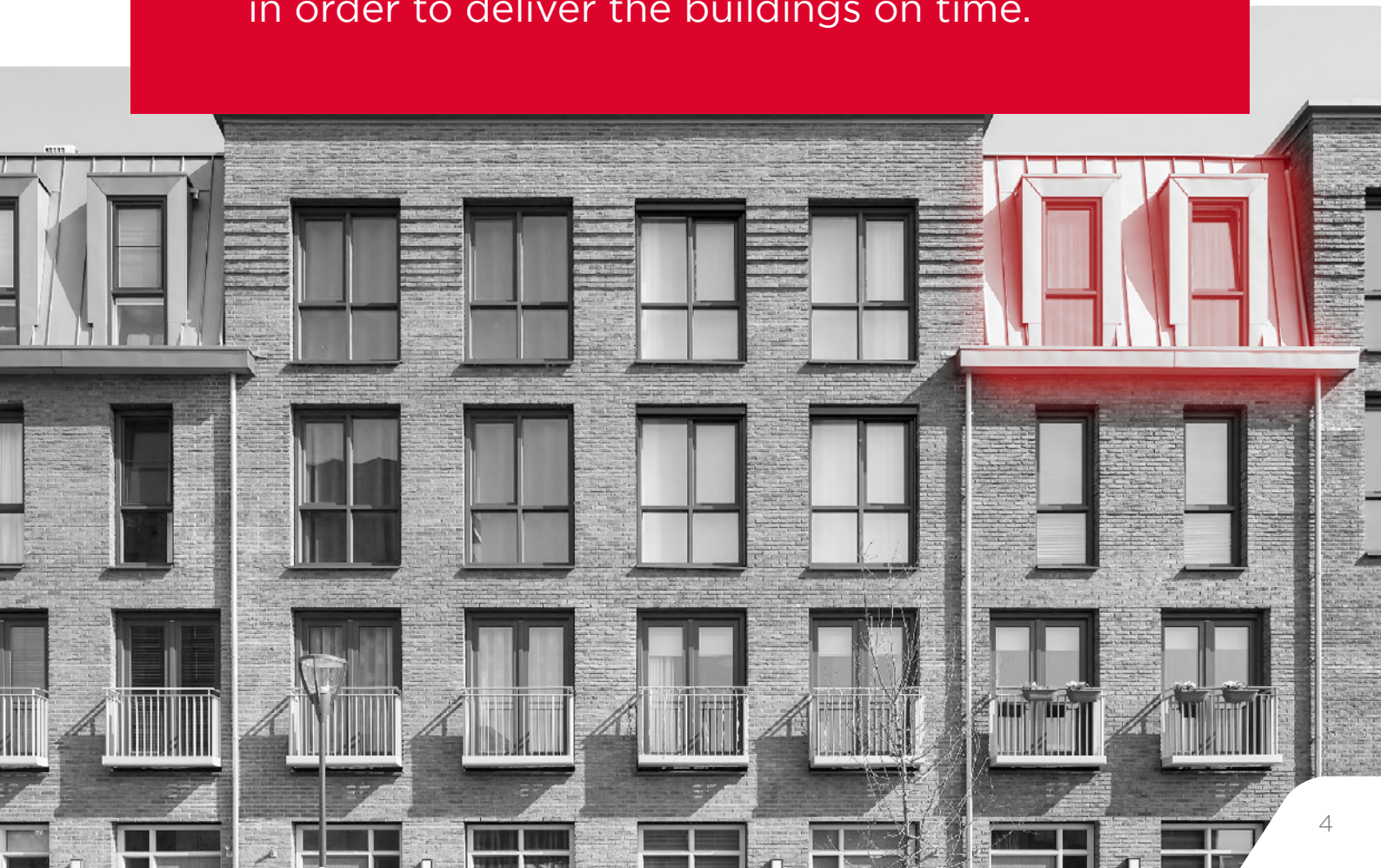
Terberg Totaal Installaties didn't have time to manage an external contractor. They needed someone autonomous to provide guidance and meet the delivery deadline so the buildings could be rented or sold. They also required **detailed drawings** for optimised conception and installation of the underfloor heating systems.

“

Aalberts hydronic flow control is our partner. We know they have high standards of quality and for such a big project, we wanted the best. We also agreed on a good price to fit into the budget.

Dion Overmars,
Assistant Project Manager at Terberg

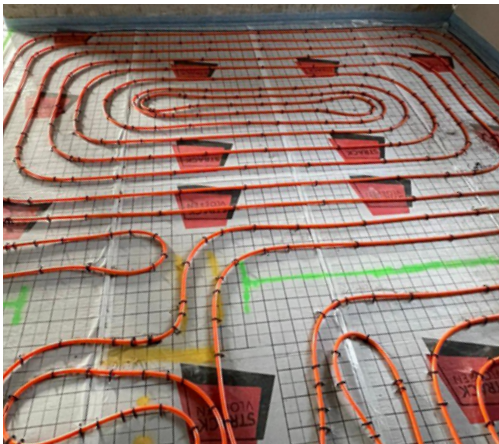
→ Terberg needed an efficient and quick-to-install solution. The project and the installation phase had to be completed quickly in order to deliver the buildings on time.



designing and installing underfloor heating and cooling within 14 months

two different fixing systems

A design and a drawing was made for each area. Two systems were used to adapt to different constraints:



tacker system in living areas

This is a basic, easy-to-use solution. It's an ideal option for projects with tight deadlines and budgets. A tacker system comes with a number of advantages. These include a moisture barrier and the fact it doesn't require perfectly plane surfaces.



grid system in bathrooms

This solution also has a moisture barrier. It's compatible with active concrete and levels uneven floors. It doesn't pierce underfloors, making it ideal for bathrooms.





After that, everything was ready to go! We gave them the building plans, explained what we wanted, and they designed the installation phase. It has all run very smoothly, we haven't had any problems!

Dion Overmars,
Assistant Project Manager at Terberg

installation run in 2 phases

The project was carried out in two phases:

1

Installation in **5 buildings** with approximately 30 flats between 30 and 70 m2



2

Installation in **4 buildings** of the same size



They work independently and don't need much help from us. This has been helpful and efficient – managing their work has been straightforward.

Dion Overmars,
Assistant Project Manager at Terberg

easier installation with K9000TP Synthetic Manifold

Given the size of the flats and the installation deadline, Synthetic Manifolds were the best choice. They are lighter and easier to handle, especially in tight spaces. They are supplied entirely pre-assembled.

It's also **compatible with both heating and cooling installations**, a key requirement when using a heat pump. It's particularly effective at cooling thanks to its excellent temperature insulation properties.

In addition, the K9000TP Synthetic Manifold is **designed to be adaptable and straightforward to use**. Adding or removing outputs is simple: all you need for assembly and disassembly is a screwdriver, clips and staples. It's also **more modular**, allowing you to juxtapose and mount outputs in any position.

It was very helpful to optimise installation time and process.



[see the Synthetic Manifold](#)



energy efficiency of the residential complex



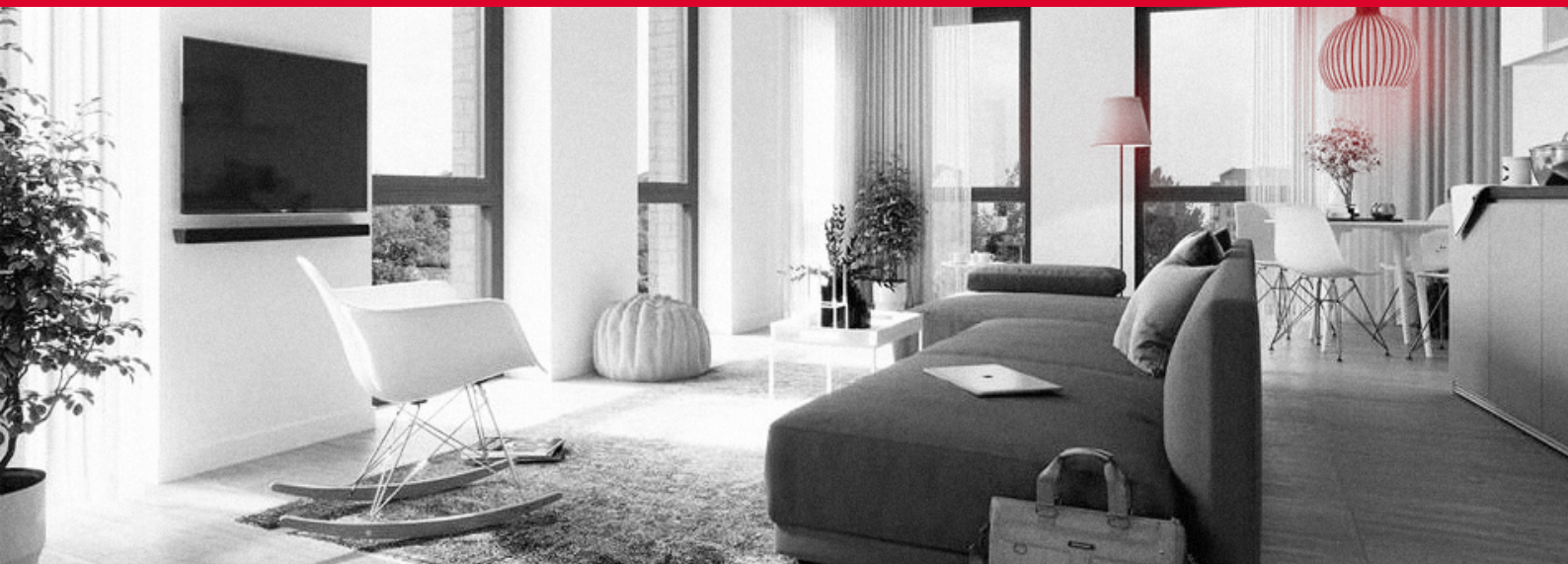
Various tests were carried out to ensure a good installation.

Despite a problem with the buffer and several heat pumps, the water pressure was good every time. The other elements tested were also fine, so the delivery deadline could be met.

“

During the installation tests, we only had one problem to report. Aalberts hfc solved it immediately within a week. They took care of it themselves, which is great! We're very satisfied with Aalberts hfc products: they're easy to install and use. We haven't experienced any issues at all!

Dion Overmars,
Assistant Project Manager at Terberg





Terberg Totaal Installaties came to Aalberts hfc with an ambitious underfloor heating and cooling project. We rose to the challenge and succeeded with water heat pumps.

We continually strive to ensure every client has the most suitable SHC systems for their buildings. We provided Terberg with both custom designs and calculations. This made our installations straightforward, and the project ran smoothly from start to finish.

Want to launch your SHC project?

do it in just 3 steps with Aalberts hfc



hydraulic flow
control

flamco
comap