

ENHANCING HEATING SOLUTIONS ZINZIA PSYCHIATRIC CARE CENTRE



[Flexalen 600](#)



[Flexalen prefabrications](#)



[Certificates](#)



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GOALS

- Energy efficiency thanks to reduced heat loss resulting from the great insulation potential of ThermaSmartPro and ThermaPU products
- Provides effective insulating and anti-corrosion protection for pre-war steel piping and the bridge's steel structure and concrete components, ensuring long-term durability;
- Quick Installation combining different materials, especially in challenging construction conditions
- Comply with the aesthetic requirements defined by the Investor (Fortum) and the Municipal Conservator of Monuments, ensuring the preservation of the historical significance of the bridge.

PROCESS

For this project, Flexalen 600 was selected for its flexibility, crucial in establishing intelligent connections in a semi-8-circle architectural layout, covering a total area of approximately 7,800 m². The application of flexible material, long continuous lengths, and prefab branches expedited construction, decreasing field connections, minimizing construction time, and reducing project risks.

During the installation process, Thermaflex engineers, collaborating closely with WSi Techniek, determined ideal dimensioning and prefabrication. WSi Techniek installers utilized Flexalen 600 pipes and Flexalinks for a plug-and-play system, ensuring rapid deployment in this complex new build comprising 14 shared residences accommodating 8 patients each, communal spaces, and employee facilities.

Flexalen 600 pipes stand out as the exclusive pre-insulated pipes globally certified under Cradle to Cradle®, supplemented by the EN 15632 certification, guaranteeing a minimum lifespan of 30 years. This seamless alignment with the project's goals underscores its commitment to efficiency and sustainability, ultimately reinforcing the success and environmental dedication of Oranje Nassau's Oord's new building.

PROJECT INFORMATION

- 📍 Oranje Nassau's Oord, Wageningen, The Netherlands
- Customer: WSi Techniek
- Project Responsible at Thermaflex: Andre Rutten

AT A GLANCE

- 14 shared residences and shared living space for elderly residents
- Reduce CO₂ emissions by an impressive 400 tons per year

APPLICATIONS

- Heating networks and biomass

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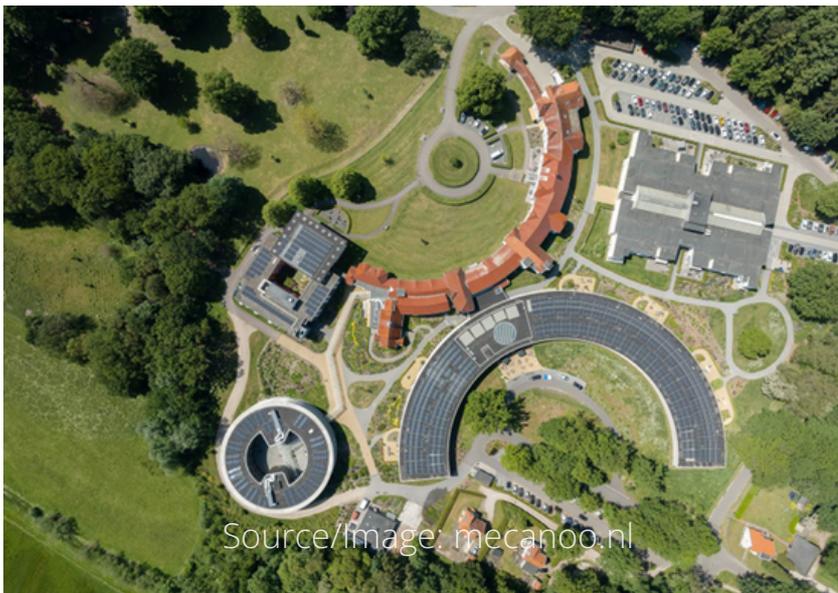
Certificates



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RESULTS

The project was successfully completed in 2020, and the implementation of Flexalen and Flexalinks in the revamped heating infrastructure of Oranje Nassau's Oord represents a significant milestone. This innovative heating pipe system, crafted with the Flexalen solution, not only enhances operational efficiency and reduces energy wastage but also makes a substantial contribution to the noteworthy environmental goal of an annual reduction of CO₂ emissions. The flexibility of Flexalen pipes ensures efficient heat transportation from the BeGreen central station, accomplishment not only underscores the project's success but also highlights its positive environmental impact, emphasizing the dual benefits of improved operational efficiency and sustainability.



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