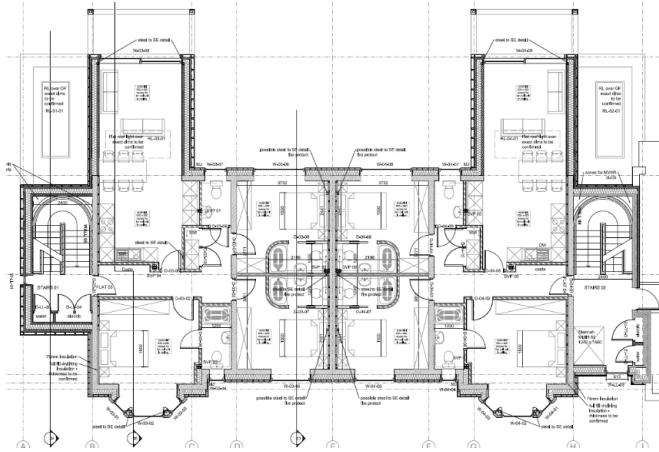


# Ridgelinek

1 Grosvenor Court

## Artus<sup>®</sup> Residential Case Study



### The Client

Ridgelinek is a residential developer focused on carbon reduction, data collection for in-use efficiencies and furthering knowledge on feasible net zero building design.

### Overview

Grosvenor Court, Cambridge was originally built in the 1930s as a detached two-storey single skin building comprising two flats on the ground floor and two on the first floor. Unsurprisingly, its EPC rating was F. In 2019 Ridgelinek commenced redevelopment of the building to create a more energy efficient, carbon neutral dwellings.



### The Project

#### The Re-development

Planning permission was granted to extend the residential footprint of the site to accommodate eight residential flats. This was to be a Passivhaus, highly insulated airtight construction with triple glazed windows, bringing it to an EPC A rating.

*"The Artus team collaborated with us throughout the detailed implementation stages ensuring the solution worked for us. The Artus units were a key component of our data-driven intelligent control system, and we are looking to repeat the use of Artus in our next development."*

**John Wilson,**  
Owner, Ridgelinek Ltd.

# Why Artus<sup>®</sup>

Artus is a unique product that works particularly well in small, restricted spaces, good for compact ceiling heights. Artus was the only product that fitted within the height of the Posi-Joist (MiTek) ceiling structure and therefore considered by Ridgeline to be the only solution for this project.

The Client chose 33 of our heating and cooling units. Our quiet, low energy, self-contained units provides even heating and cooling distribution and runs off a much wider band of water temperatures to deliver comfort cooling in the occupied space, working seamlessly with the controls system installed in the property by Ridgeline.

Artus' key functions are to respond to the energy efficiency management system of the building and perform the intended heating and cooling function. In cooling mode, the waste heat from Artus heats a buffer tank enhancing the efficiency of the heat pumps which generate domestic hot water.

## Resulting building benefits which Artus helps to achieve:

- Significant reduction in energy use, resulting in substantially lower bills
- EPC A
- Close monitoring and analysis of data (enabled by Artus' built-in intelligence)

