



1930s Art Deco Townhouse totally transformed **with Minus7**

Built in the 1930s, the home owners of this beautiful art deco townhouse wanted to add a third floor to their 4 bedroom detached house, become more environmentally friendly and retain the distinctive character and charm of their home.

Originally constructed with a parapeted flat roof, this had become problematic over time and the owners wished to extend their home by adding a third floor.

“If you need a new roof Minus7 is the obvious choice”
Elin Williams, Home-Owner

A pitched roof was approved by the local Planning Department.

Like many of Minus7's clients, getting the right renewable heating technology was a critical consideration for the couple. They did not have a specific technology in mind however they had clear goals about the low carbon living environment they were trying to achieve.

As a new roof was needed, they incorporated the Minus7 hybrid heating system in an aesthetically pleasing design, which included Velux windows.

The owners chose slate grey tileplanks from the range of colours available to provide a sleek, modern and aesthetic finish to their external renovation.

The System

Minus7 provided the entire roof finish, with 40m² activated as solar endothermic energy collecting tileplank. This provides a thermal energy source capable of producing space heating for all three floors.

Unusually the home owners asked Minus7's in house design team to situate both the Solar Energy Processor, the large 3.6 cubic metre and 1m cubic metre thermal stores in the large unused garage attached to the house.

The owners chose the BBI version of Minus7's Solar Energy Processor so that it could be integrated with the back boiler on a wood burning stove already situated on the ground floor.

Out of the 102 available colours for the Solar Energy Processor, the home-owners opted for a metallic navy blue finish to continue the blue colour scheme that is found throughout their home.

Savings for decades to come

The bespoke multi heat system has cut fuel bills by 70%.



“ Our house is lovely and warm and very low carbon! ”

Elin Williams, Home-Owner

The low operational and running costs of the system as well as Minus7 performance guarantees ensure these happy home owners will continue to accrue significant savings for decades to come.

Remote system monitoring

An in house System Status Panel allows the couple to see exactly how much energy they are generating, using and storing at any time.

Whilst traditional roof construction methods were used, the owners were amazed at the speed and ease of the installation using a system of interlocking tileplanks, which

required fewer fixings than tile or slate roofs. Non-active tileplanks weigh 17kg/m²; active energy collecting tileplanks weigh 28kg/m² – the same as Welsh Slate.

Once installed, Minus7 tileplanks provide a durable, weather-tight and low maintenance roof that will last in excess of 50 years. The roof's powder-coating will require first maintenance in 35 years.

If you would like to arrange a site visit, please contact: info@minus7.co.uk