



## eHome2

How Saint-Gobain Weber is contributing to the future of housebuilding





Energy House 2.0 is a unique £16m facility at the University of Salford, designed to research and test, in tightly controlled conditions, new ways of powering, heating and insulating homes.

The aim of the research is to make homes more energy efficient and help them meet new standards requiring a significant reduction in carbon emissions for new build homes from 2025. The Energy House 2.0 project is part-funded by the European Regional Development Fund.



European Union

European Regional  
Development Fund

#### eHOME2 BY SAINT-GOBAIN AND BARRATT DEVELOPMENTS

eHome2 is piloting the use of next generation heating and ventilation technologies as well as smart technology to enable occupants to change the temperature and turn on the shower at the click of a button. The home uses our innovative **weberwall brick** system for the external facade of the property.



**BARRATT**  
DEVELOPMENTS PLC  
BUILDING EXCELLENCE  
SINCE 1958

#### THE AIMS OF THE RESEARCH

The project's findings will uncover the most effective ways to reduce carbon and to control running costs in our homes. The facility can test the energy performance of buildings in any climate and temperature ranging from -20°C to +40°C, as well as recreating gale force winds, rain, snow, ice and solar gain.

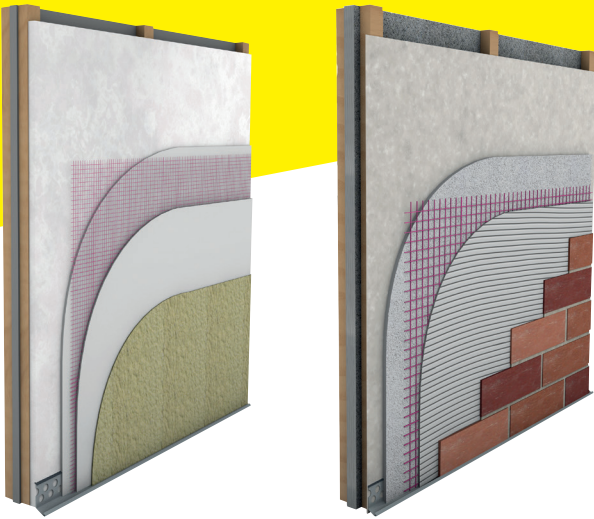




## THE ROLE OF WEBER

eHome2 is a three-bedroom detached house designed to meet future performance and regulation requirements.

Our lightweight, flexible **weberend MT** render system was used for the exterior of the home, finished with our innovative brick slip system - **weberwall brick** on the lower part of the wall and **webersil TF** decorative render coating to the first floor.



### **weberend MT** multi-coat render system

MMC solutions are predominantly based around a frame system that are inherently flexible so the render system also needs some flexibility, the best way to achieve that is through the application of multiple thin polymer-modified layers.

This multi-coat render system is designed for application to an appropriately framed and boarded panel substrate, with a choice of textured finishes in a wide range of colours. It offers a high degree of weather protection, crack resistance and fire performance. The render system can be finished with **webersil TF** or **weberplast TF** textured finishes or **weberwall brick** a lightweight brick effect system.



### **weberwall brick** mineral brick effect finish

A lightweight, authentic brick-effect finish which can be installed in a fraction of the time compared to traditional brick slips. Formulated from 95% minerals bound in cross-linked polymers laid onto a mesh sheet, **weberwall brick** is a fully flexible, colourfast system that allows existing structures and new buildings to breathe.

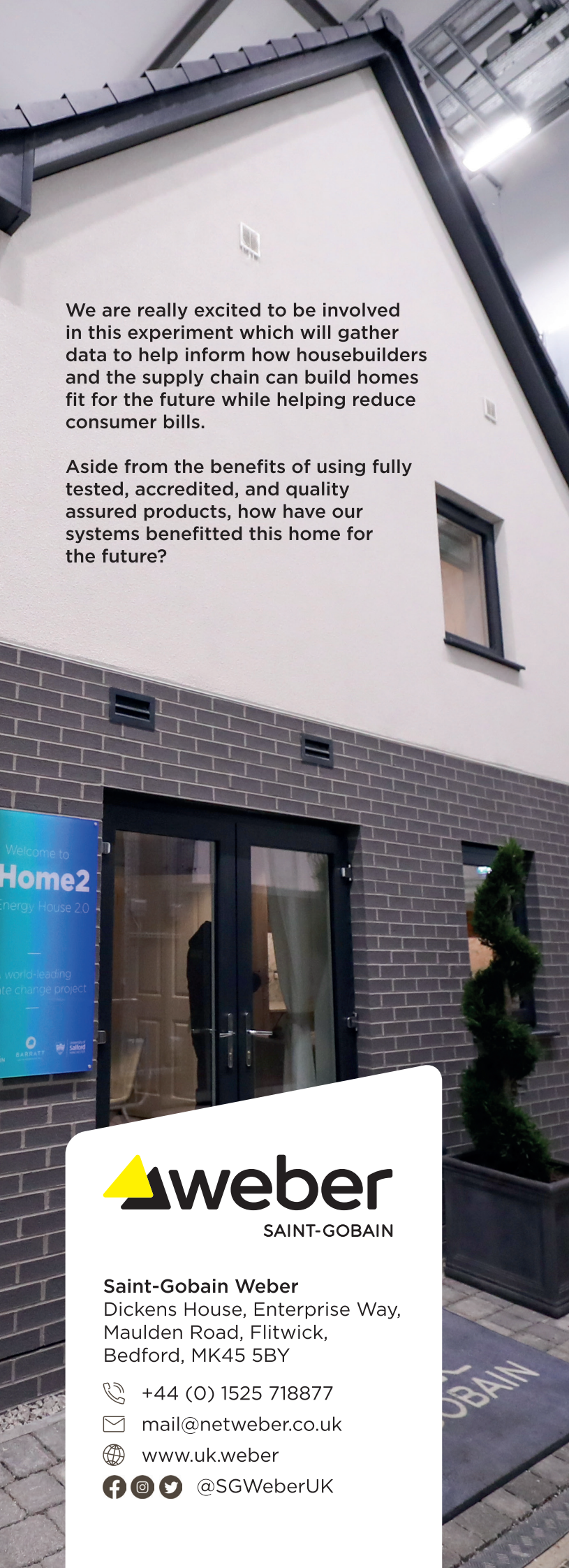
- ✓ Lightweight - 1 sheet of 20 bricks equal to the weight of 1 house brick
- ✓ Range of authentic colours and textures available
- ✓ Suitable for use in buildings over 18m having achieved an A2 Rating to Fire Classification in accordance with BS EN 13501
- ✓ Forms part of a number of BBA approved systems

### **webersil TF** silicone enhanced render finish

A textured silicone render finish is available in over 100 colours and offers a highly weather-resistant decorative coating. The 1.5mm aggregate content provides a modern even textured finish.

- ✓ Highly water repellent, providing optimum facade protection
- ✓ Highly vapour permeable
- ✓ Weather-resistant and UV stable
- ✓ Hand or spray applied
- ✓ Forms part of a number of BBA approved systems





We are really excited to be involved in this experiment which will gather data to help inform how housebuilders and the supply chain can build homes fit for the future while helping reduce consumer bills.

Aside from the benefits of using fully tested, accredited, and quality assured products, how have our systems benefitted this home for the future?

**weberwall brick** is proven to be quicker to apply. By laying 20 bricks at a time compared to a traditional brick slip system a wall can be completed more than three times faster.

One **weberwall brick** sheet of 20 bricks weighs the equivalent of one traditional household brick, meaning less storage is required on-site, less manual handling, transport costs are lower, and there are fewer emissions from lorries.

**weberwall brick** is thinner than traditional brick, it frees up space within the cavity so that more insulation can be added, keeping the house warmer than traditional brick was used.

During the design stage of the project, elevation drawings were provided which enabled us to quantify the exact amount of **weberwall brick** required for the build, which simplified the design and build as well as minimising wastage.



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