BASF HOUSE PROJECT, NOTTINGHAM
REHAU RENEWABLE SYSTEMS
REHAU’s Building Solutions division is focused on developing products which are energy efficient and which utilise the inherent features of polymer to deliver environmental benefits.

Most recently, it has been involved as a partner on the BASF House Project at Nottingham University’s School of the Built Environment. This innovative BASF collaboration, which opened at the end of January, is designed to demonstrate how passive heating and ventilation can be successfully achieved in a UK property.

REHAU, whose products have already been used in low and zero energy projects across Europe, has supplied its AWADUKT Thermo ground air heat exchanger for the building, as well as its RAURAIN rainwater management system, PVC-U window frames and flexible polymer pipework.

The south facing façade of the building also has two separate REHAU PVC-U window screens in place which capture the solar gain - heating the air for use in the rest of the building. The south facing elevation is almost 100% REHAU glazing and the north facing 30% providing improved quality of life in the home by utilising good daylight. This also cuts the energy requirement to light the home.

The RAURAIN rainwater management system which has been installed collects rainwater in a specially designed underground tank and then distributes it via a filter, pump and separate pipe system for non-potable water requirements such as flushing toilets, washing machines and watering gardens.

REHAU’s market leading PVC-U window systems and polymer pipework for plumbing and drainage have been used on the project because of the favourable environmental performance of polymer materials over more conventional alternatives.