

# Press Release

24<sup>th</sup> November 2009

## New low U-value Kalzip roof for CO<sub>2</sub>Zero

Kalzip's new dual-insulation roof system achieves U-values as low as 0.1 W/m<sup>2</sup>K and has been installed on the CO<sub>2</sub>Zero-LiveWork building, Bristol. This technically proven low U-value system is extremely cost effective and utilises the combined benefits of two complementary types of insulation materials - Kalzip Insulation Plus (glass mineral fibre) and Kalzip Insulation 23 (rigid insulation boards). Combining the two insulation materials enables a significantly greater overall thermal resistance to be achieved compared with using a single layer of insulation of the same thickness.

Conceived and developed by Logic Construction Project & Design Services, CO<sub>2</sub>Zero-LiveWork is the first private residential scheme in the UK and first Live/Work scheme to attain Certification at Code for Sustainable Homes (CSH) Level 5. The development comprises a private terrace of 9 properties, each with a duplex apartment over a ground level work unit with a secure street level shop front / entrance. Brandon Lloyd Architect was responsible for the detail design and site supervision whilst Approved Teamkal Contractor, CDW Ltd installed the smooth curved standard stucco embossed low U-value Kalzip roof system, fabricated rooflight soakers and gutter system.

The scheme was the brain-child of Logic CP&DS Director, Paul Warren-Cox who says, "The increasing demand for sustainable housing is a major concern for society so reducing energy consumption and CO<sub>2</sub> emission levels are fundamental to attaining a carbon-free future. Kalzip's new low U-value roof system was the obvious choice for reducing CO<sub>2</sub>Zero-LiveWork's overall heat loss and helping the development to achieve optimum energy efficiency."

Introduced in April 2007, the CSH is closely linked with the Building Regulations and represents best current practice for the construction of residential dwellings. CSH is geared to improving the overall sustainability of new homes by setting a single framework within which the house building industry can design and construct dwellings to continually rising energy efficiency and environmental standards.

The low U-value roof system is based on standard Kalzip standing seam build-up configurations. These configurations have been further developed to satisfy the ever-tightening design limits on thermal performance levels demanded for modern construction and to comply with anticipated changes to Part L of the Building Regulations due in 2010.

Kalzip's low U-value roof system can be used with liner, liner-deck, structural deck and timber deck constructions to cater for virtually any new build or refurbishment application. Even more sustainable low U-value roof systems are available with renewable (Kalzip AluPlusSolar) and green roof (Kalzip Nature Roof) technologies.

For more information, please visit [www.kalzip.com](http://www.kalzip.com)

