

Sustainable Rational House™ wins pilot project in West London with NorDan windows

“ A new type of house building created by two entrepreneurs, will be piloted at a site in the west London Borough of Hammersmith and Fulham for the local authority, at Springvale Estate. Rational House™ won the pilot project to supply and build ten units, with the possibility of a further x 100 over the coming years.

This follows a successful prototype house built last year on Biscay Road in Hammersmith.

In an attempt to address the increasing demand for new homes which is currently not being met across the UK, experienced construction design professionals, engineer Tim Battle and architect Robert Dalziel created “Rational House” and their subsidiary company City House Projects Ltd. The pair took inspiration from the most successful features of housing around the world, past and present to create this new type of building which meets the Code for Sustainable Homes Level 4. The house is built over four storeys and with three bedrooms, and has a top floor study and terrace. The external walls are load bearing, preventing the need for internal steel framework and producing an adaptable layout that can accommodate the changing needs of the people who live in it. Using modern methods of construction, modules are constructed offsite giving faster completion without any weather worries. “It took two weeks to assemble the shell of the prototype house we built in Fulham,” says Mr Dalziel. “A large proportion of the materials are made from industrial waste. The zinc and the bricks are reclaimed, 70 per cent of the panels are made from recycled materials and 100 per cent of floors and staircases are recycled using secondary aggregate that would



have otherwise gone to landfill.” Meeting the Code for Sustainable Homes Level 4 Rational House™ has ambitions to reach Code 6. PV panels on the roof terrace provide the house with 15% of its energy requirements. “We are delighted to be part of this exciting innovative project,” says Paul Detain, regional director of NorDan. “Our large triple glazed windows with 0.7 u-values are an essential element of this sustainable construction, providing low u-values to seal the building with energy efficiency. Given their size, they also provide an airy light feeling throughout.” Natural stack ventilation via the stairwell and low water use fittings also help

achieve these great energy efficiency credentials. The 150m² unit has a footprint of just 9.5m x 9.5m. NorDan supplied its lowest u-value windows, NTech 0.7 Passive Windows, which are triple glazed timber tilt and turn windows. The Norwegian firm also supplied balcony doors and sliding doors. The glazing is Super Low E Argon filled and the windows are factory painted in RAL colours. The new units at Hammersmith and Fulham, will be partly for sale and partly offered as direct market sale as affordable housing for key workers.

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