

NEWCASTLE



A development of energy efficient housing that will cost-effectively achieve an “A” rating under the new Irish “Building Energy Rating” regulations.

OMP have worked with Sustainable Energy Ireland under their “House of Tomorrow” programme in generating dwelling types with a target of 40% reduction in energy use. The dwellings are timber frame construction with an air-tightness membrane integrated into the fabric of the building. All open fireplaces and chimneys are omitted to increase energy efficiency while passive ventilation systems and solar thermal flat plate collectors have also been employed. The carbon content of the construction is further reduced by the use of GGBS concrete.

In addition to these material considerations, the overall site design follows best practice sustainable place-making principles. The site planning integrates the development with the existing village Main Street. Historical features are protected and public open spaces are passively supervised by overlooking. Individual dwellings are designed to maximize sunlight, daylight and passive solar gains through layouts and orientation.

Project Name: Sustainable Residential Development at Newcastle, Co. Dublin
Client Name: OPUS Developments Ltd
Project Description: A rated ‘House of Tomorrow’ Residential Development integrated into the existing village fabric of Newcastle Village.
Description of Role: Architects + Urban Designers
Total Capital Value: €12 million
Dates of Involvement: March 2005



Winner of the Green Awards Best Sustainable Housing Project 2008